Northern California's Computer Magazine
May 29, 1995 • #137
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MicroTimes

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Convergence: Multimedia And The Movies
Secrets Of Stargate

Thoughts On SATAN

Silicon Valley Meets Hollywood

Film In A Digital Age

AFI's Robert Schwarzbach discusses digital technology and filmmaking

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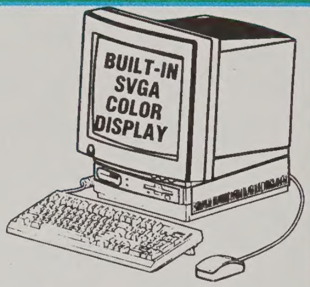
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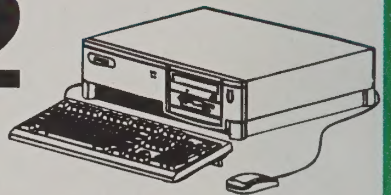

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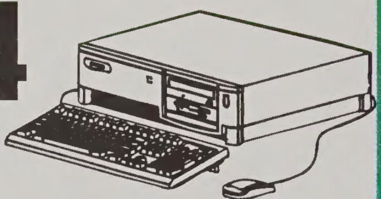

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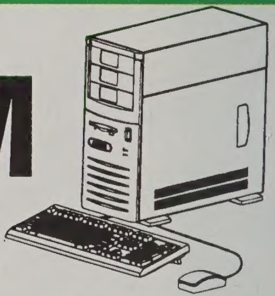

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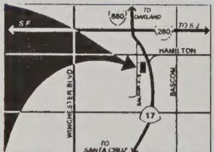
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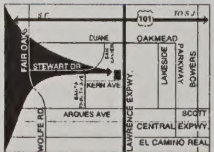
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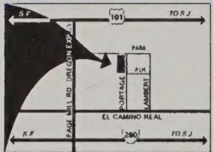
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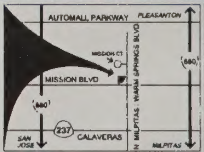
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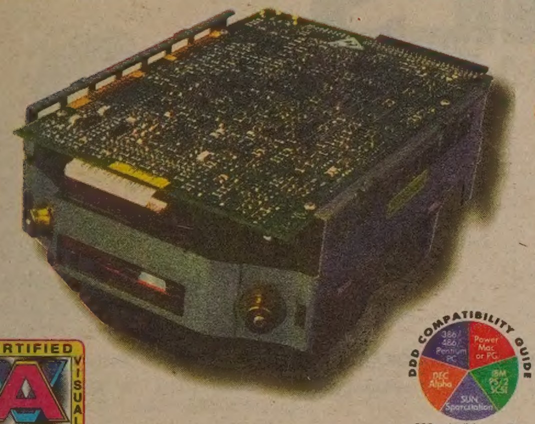

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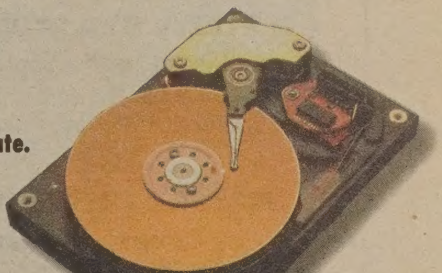

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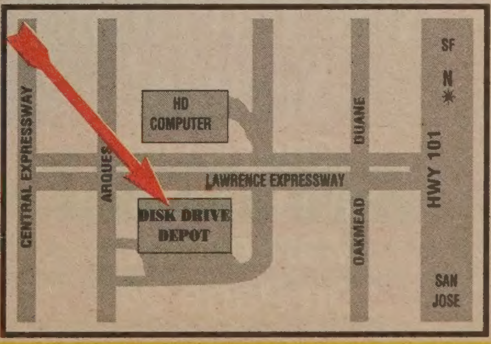

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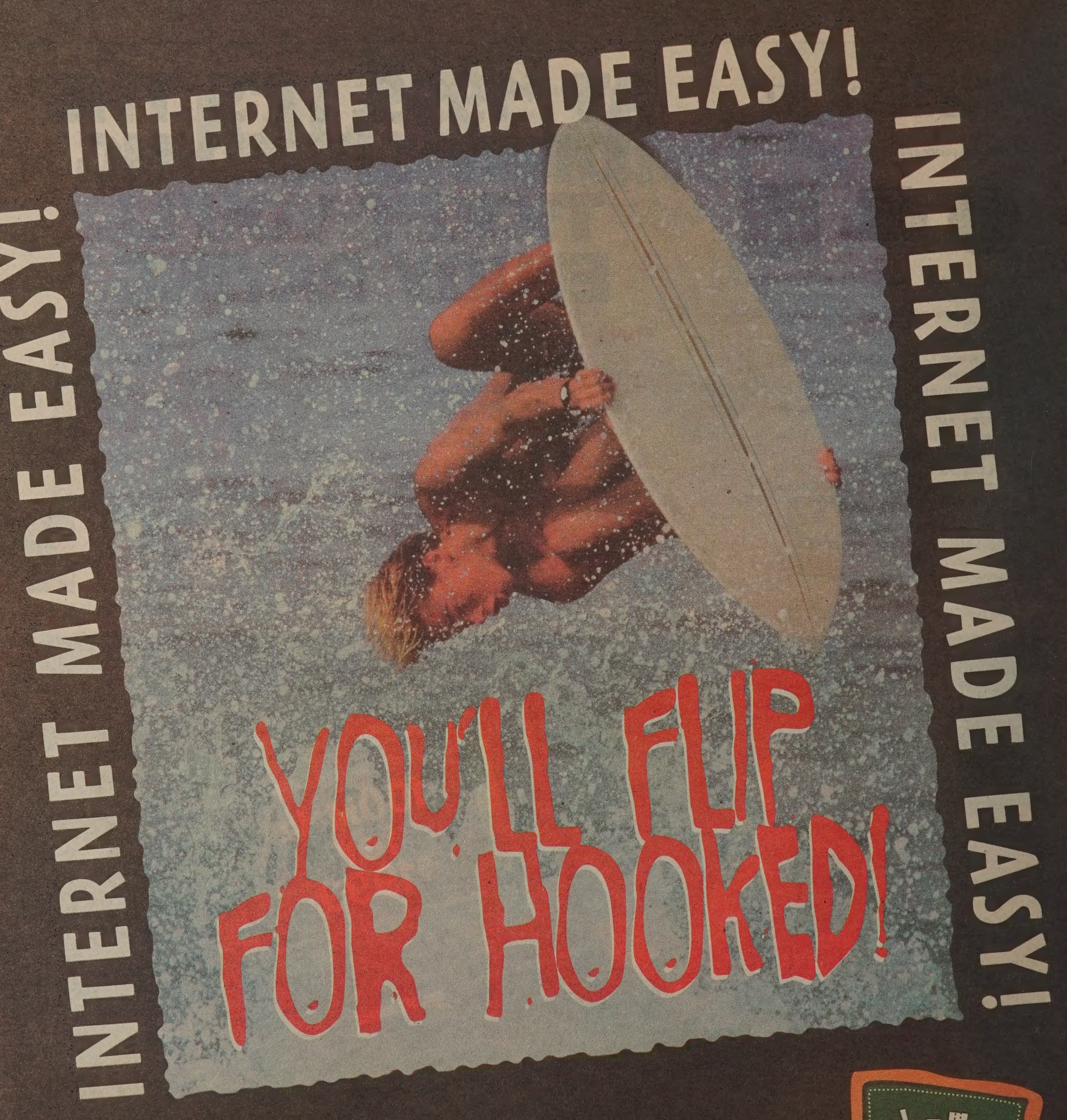
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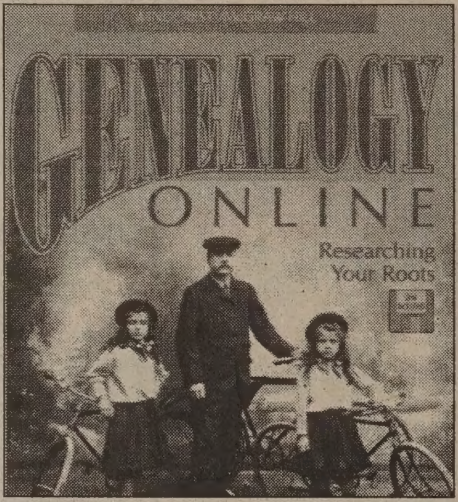
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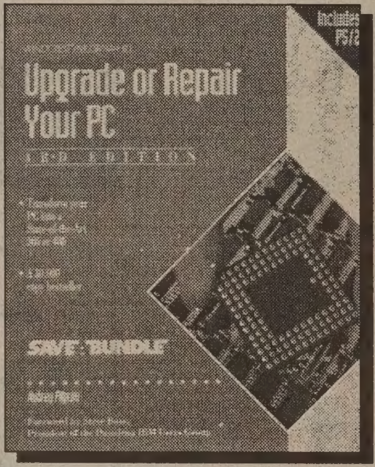
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He organized and chaired the landmark First Conference on Computers, Freedom & Privacy (1991), founded *InfoWorld*, was founding host of PBS's *Computer Chronicles* and founding editor of *Dr. Dobb's Journal*, and has chaired various computer and mathematics organizations. He holds graduate degrees in computing (Stanford), medical information science (UC Medical Center), and mathematics and statistics. He began working as a programmer in 1968, and was a mathematics teacher and professor for ten years before that. He also serves on Autodesk's board of directors.

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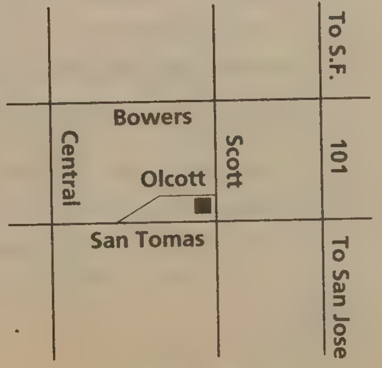

News and Views

BY PAUL HOFFMAN

Industry Insights

News From The Net

The Satan That Wasn't

Computer journalists have always been as susceptible to industry hype as the regular press. Given the fairly unexciting topics we cover, however, we've usually been less susceptible to sensationalism than the daily newspapers and television news.

That era may be over. If the pre-release coverage of SATAN, a new Internet security tool, is any indication, computer journalists are as desperate for a "hot" story as the rest of the pack.

Starting in March, computer magazines began announcing the imminent release of a new Internet security checking tool, humorously titled Security Administrator Tool for Analyzing Networks, or SATAN for short. The security of the Internet, or the severe lack thereof, has been a topic of discussion for many years, and now that the number of users on the Internet is growing rapidly, more people are getting worried about what it is that we're getting these millions of new users into.

Early reports of SATAN called it a tool for hackers. SATAN's authors, Dan Farmer and Wieste Venema, are well known in security circles for having written some of the better Internet security tools, so articles accusing them of "helping" hackers were pretty much off the mark. The truth was that, even though Internet system administrators had numerous tools at their disposal to help fix known security problems, far too few administrators were using them.

Stories about Internet security were trumpeting the fact that there were security problems, not that the problems that they were reporting were usually easily preventable by system administrators. SATAN was designed to make the problems more apparent to everyone. Instead of relying on administrators to run programs at their sites to check for security holes, SATAN allowed anyone on the Internet with their own UNIX system to check for the holes from the outside.

Of course, this meant that SATAN can be used by hackers to find holes and exploit them (SATAN even includes explicit instructions on how to exploit the problems found). However, it also meant that a single site administrator could easily probe all of the systems at the site from one place to look for cracks in the security. The journalists covering the weeks leading up to the release of the software mostly ignored this aspect of SATAN.

The articles also ignored the fact that all the security holes reported by SATAN were already well known to hackers and to system administrators who cared at all about security. Although some of the problems exposed by SATAN are not easily fixed at Internet sites that have never thought about the security implications of networking, most are very easily remedied with simple software changes that have been available for months or years.

By the time SATAN was released on April 5, the regular press had picked up the story from the computer press. As expected, newspapers and magazines got the story wrong and decided to emphasize the sensational even more than the computer press. The result was dire predictions about disruptions in the Internet, attacks on users, and general mayhem. Many computer users who had no idea what was actually happening with SATAN started their computers that morning wondering if they would even work.

In the weeks after SATAN was released, there was no increase in reports of computers being broken into. Certainly, there were reports of people probing various computers on the Internet using SATAN. The US Department of Energy Computer Incident Advisory Capability (better known as CIAC) had created a program called Courtney that can detect attempts by people using unmodified versions of SATAN to probe a site. The folks at CIAC reported that they heard few reports from Courtney users following SATAN's release.

Thus, the scary scenarios painted by the press turned out to be completely wrong. Not surprisingly, almost no one followed up on the story with articles that reported that they had misled their readers; in fact, almost no post-release articles on SATAN appeared at all. This left many computer users not knowing whether the Internet is "safe" to use in the post-SATAN era.

The answer is, no, it's not really safe: it never was. And SATAN has probably done more to

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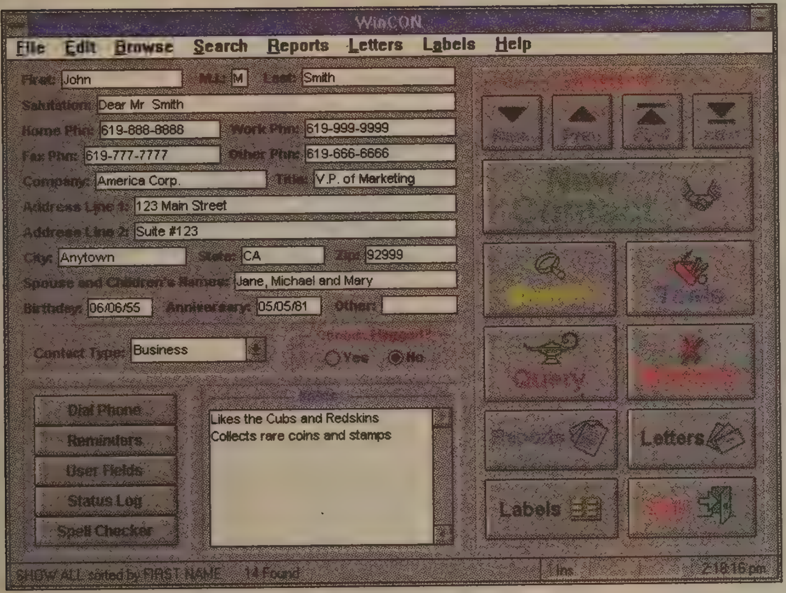

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Company: America Corp. Title: V.P. of Marketing
Address Line 1: 123 Main Street
Address Line 2: Suite #123
City: Anytown State: CA Zip: 92999
Spouse and Children's Names: Jane, Michael and Mary
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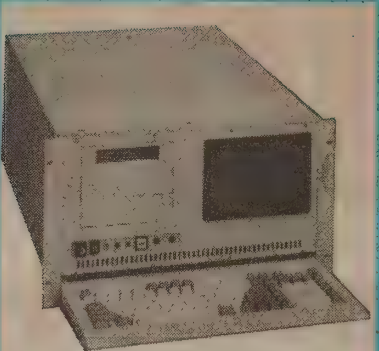

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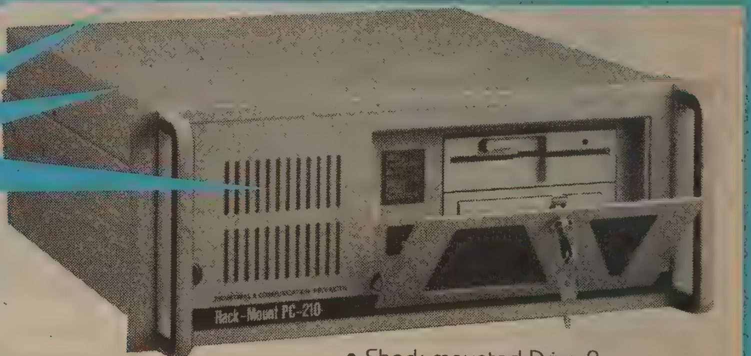

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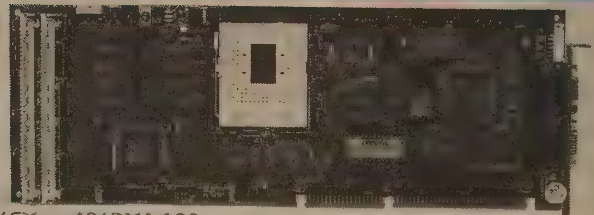

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increase Internet security than to decrease it because it finally got many system administrators off their lazy butts and made them pay attention to some glaring problems that were easily fixed. As the folks at CIAC point out, good hackers already had tools that probed the same weaknesses that SATAN showed, and those hackers wouldn't use SATAN because it is more easily traceable than the tools they use today. SATAN turned out to be a small blip, one whose effects were grossly overestimated by the computer and regular press.

> **Now that the number of users on the Internet is growing rapidly, more people are getting worried about what it is that we're getting these millions of new users into.**

Safety on the Internet is like safety in an urban area. People who live in the country and never go to the city aren't exposed to dangers that are more prevalent in the city; people who live in the suburbs and only go into the city sometimes are more exposed; people who live in the city are exposed more often. If you never connect your computer to the Internet, you won't expose yourself to the many dangers that can be found there, and you won't have access to the incredible variety of services only available on the Internet.

Internet Confusion For Windows Users Worsens

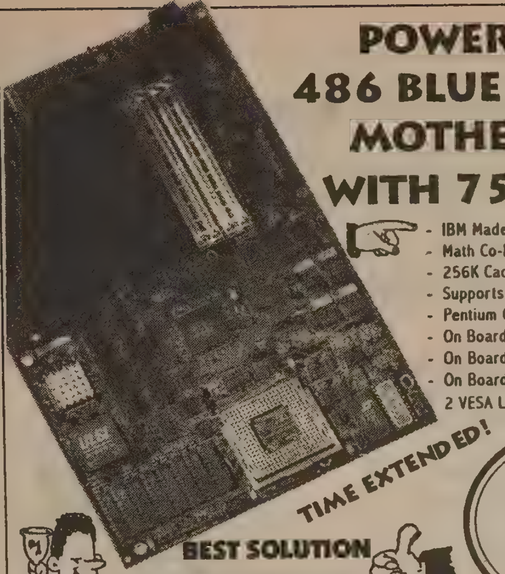
While PC users around the world wait (and wait, and wait) for Windows 95 to be released, the world moves ahead. As hundreds of thousands of computer users get on the Internet every month, much publicity has been given to the content on the Internet, the future of the Internet, and security concerns for the Internet. Meanwhile, the software that people use to access the Internet is showing strain and has already become a major bottleneck for many people.

The large majority of computer users run Microsoft Windows 3.1, and many of these people are being enticed to the Internet with promises of graphical mail programs and Web browsers. In order to get the most out of the Internet with these interfaces, most Windows users must get special Internet access accounts using the SLIP or PPP communications protocols. In order to use these protocols, the vast majority of Windows users must also have a system-level addition called "WINSOCK.DLL," or Winsock for short.

This would be no problem if there was just one place to get your copy of Winsock. Unfortunately, there are many alternative sources for Winsock, and although most of them are reasonably compatible, there are enough differences to make life miserable for Windows Internet users. Worse yet, it is usually impossible to tell whose Winsock you are running, since all the different implementations of it have the same file name.

(Incidentally, Macintosh users do not have this problem, but they have a related one that makes accessing the Internet just as difficult. The MacOS equivalent of Winsock is MacTCP and either MacSLIP or MacPPP, all of which are available for free. However, the user interface of MacTCP is horrendous, and it is often difficult for even advanced Internet users to figure out. Apple has promised to fix the interface in the future, but they started promising that over a year ago.)

A few years ago, Microsoft and many software developers got together



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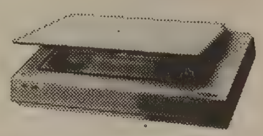

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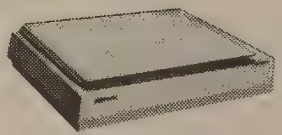

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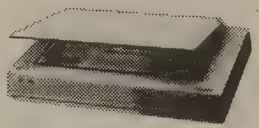

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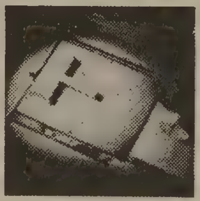

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Insights *continued...*

and agreed on a set of rules for Winsock driver software. It would have been logical for Microsoft to have released the definitive Winsock software at the time and be done with it, but Internet users weren't so lucky. Instead, there are many different implementations of Winsock, some of them shareware, some of them commercial. And, as you have probably guessed, they don't all match the standard exactly.

People who write Windows software for the Internet are acutely aware of the growing problem of incompatible Winsock drivers. One of the most heralded Internet software companies, Netscape, says that they have found various problems with every Winsock driver they've come across. Developers familiar with the variety of problems wouldn't even comment off the record which Winsock they thought was best because they all had bugs. Users have seen the effects of these problems cropping up as mysterious crashes or unexpected errors in various Internet programs.

The situation is worsening now that many more Internet software packages are being released. It is common for such packages to simply write their own version of Winsock over a user's existing version, often without telling the user. Software that was expecting a Winsock with different quirks starts to exhibit problems, but there is no way for the user to get their old Winsock back. Even if the installation program alerts the user that it will overwrite the old Winsock, few users understand that this means that other software may stop working, or may be just fine.

Microsoft hopes to get this situation under control with Windows 95, which they insist is still slated for August release. Windows 95 will have its own Winsock built in, and it is unlikely that many companies will create their own Winsock drivers for Windows 95 if Microsoft's is at all usable. On the other hand, if companies can make Winsock drivers that run much faster than Microsoft's, the same battle may ensue again in the Windows 95 arena. Interestingly, Microsoft has its own Winsock in Windows for Workgroups, but that product has languished on the shelves as people wait for Windows 95.

This solution won't help Windows 3.1 users, however, and it is very clear that there will be at least thirty million such users a year from now. In fact, as more people migrate to Windows 95, the Winsock problem may worsen for Windows 3.1 users, because there will be even less support than there is now.

Yet the number of people getting on the Internet using PCs will continue to increase. The people who end up supporting all the different Winsock implementations are often the Internet service providers (ISPs), since problems in Winsock end up looking like problems with the Internet connection.

ISPs are ill equipped to handle this kind of mess. Many are one- and two-person companies whose technical expertise is in areas other than the intricacies of Windows drivers. The larger ISPs are starting to insist that their users only use particular Winsock implementations, and this trend may continue as the Winsock market gets even more fragmented.

As the ISP market matures, people will start paying much more attention to the amount of support they get from their ISP; the smaller companies may get sunk by this kind of problem. This, of course, doesn't help Windows users either, but unless Microsoft or someone makes a good, solid Winsock available to all Windows users for free, the problem will plague the Internet for the foreseeable future. ■

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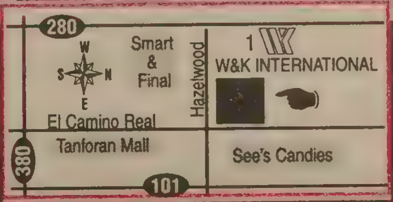

MicroTimes Index Hits Fifth-Consecutive Record High

Technology stocks continued to ride the coattails of the record-breaking Dow Jones Industrial Average and the S&P 500 during the monthly period ended May 10.

And nowhere was this bull run in high-tech stocks more evident than in the MicroTimes Stock Index, which stampeded 300.51 points higher last month, or 4.79%, to yet another record high of 6571.21. That bullish performance, however, was eclipsed by the Dow Jones Industrial Average, which gained 206.81 points, or 4.93%, to close above the 4400 level for the first time ever at 4404.62.

Turning to stocks in the MicroTimes Stock Index:

Intel rose a brisk $17 a share en route to a close of $108.75, but not before it hit a new record high of $112.88 along the way. Strong demand for its chips, coupled with the potential for higher prices for those chips, combined to fan the flames of optimism regarding the stock's prospects in future years. Bear Stearns, for example, boosted its 1996 earnings estimate for the company by $1 a share to $11 a share, citing the potential for its P6 chip. Intel, not surprisingly, was the largest dollar-gainer for the monthly trading session.

Dell's share price followed suit, rising a hefty $10.25 a share, or 23%, to $54.75. The stock was raised to "buy" from "attractive" by Paine Webber analyst Michael Kwatinetz. The rating increase came after Dell lowered the prices for its Dimension line of PCs by as much as $150 each.

The share price of Sun Microsystems rose $7.31 a share to $42.88 last month. The workstation concern said its first-quarter earnings reached $1.09 a share and exceeded Wall Street's estimates of 86 cents a share. Following the bullish news, the stock was raised to "buy" from "outperform" by Smith Barney analyst John Cassarini.

Autodesk, in stark contrast, backtracked $6.75 a share, or 16.1%, before coming to rest at $35.25. Last month, Dean Witter Reynolds analyst Peter Rubicam downgraded the stock to "neutral" from "buy." The reason: The analyst said, "We're getting indications from the company's domestic sales channel that sales of AutoCAD Release 13 are slower than expected." ■

EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 04/12/95	CLOSING PRICE 05/10/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL DIVIDEND RATE	ANNUAL DIVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
OTC	Adobe (H)	ADBE	53.63	53.75	0.13	0.23	168	0.20	0.37	58.75	24.00
OTC	Autodesk	ACAD	42.00	35.25	-6.75	-16.07	31	0.24	0.68	44.00	23.25
OTC	Borland	BORL	8.00	8.75	0.75	9.38	-	0.00	0.00	14.38	6.00
OTC	Informix (H)	IFMX	37.13	42.50	5.38	14.48	39	0.00	0.00	43.88	14.25
OTC	Lotus (L)	LOTS	35.25	34.25	-1.00	-2.84	-	0.00	0.00	66.00	25.00
OTC	Microsoft (H)	MSFT	71.63	79.25	7.63	10.65	34	0.00	0.00	83.75	46.75
OTC	Novell (H)	NOVL	21.50	20.63	-0.88	-4.07	39	0.00	0.00	22.63	13.38
OTC	Oracle	ORCL	32.00	31.13	-0.88	-2.73	37	0.00	0.00	34.63	18.56
OTC	Software Publishing (L)	SPCO	3.63	3.38	-0.25	-6.90	-	0.00	0.00	6.25	2.88
OTC	Symantec	SYMC	20.88	22.00	1.13	5.39	29	0.00	0.00	24.50	9.88
	HARDWARE										
OTC	Apple	AAPL	39.00	41.44	2.44	6.25	10	0.48	1.16	48.06	24.63
OTC	AST Research	ASTA	17.25	17.13	-0.13	-0.72	-	0.00	0.00	19.25	10.38
NYS	Compaq	CPQ	32.00	38.00	6.00	18.75	12	0.00	0.00	44.38	29.50
NYS	Digital Equipment (H)	DEC	42.88	45.00	2.13	4.96	-	0.00	0.00	46.75	18.38
OTC	Dell (H)	DELL	44.50	54.75	10.25	23.03	16	0.00	0.00	56.00	23.38
NYS	Hewlett-Packard (H)	HWP	61.13	68.13	7.00	11.45	19	0.80	1.17	68.38	35.94
NYS	IBM (H)	IBM	87.13	93.88	6.75	7.75	14	1.00	1.07	96.88	54.50
NYS	Silicon Graphics (H)	SGI	34.75	36.75	2.00	5.76	28	0.00	0.00	39.00	18.75
OTC	Sun Microsystems (H)	SUNW	35.56	42.88	7.31	20.56	14	0.00	0.00	43.75	18.25
NYS	Xerox (H)	XRX	115.63	116.50	0.88	0.76	17	3.00	2.58	125.88	90.63
NYS	Tandy	TAN	48.38	47.00	-1.38	-2.84	16	0.72	1.53	52.38	33.38
	CPU'S										
NYS	Advanced Micro Devices (H)	AMD	34.50	37.13	2.63	7.61	12	0.00	0.00	37.13	22.25
OTC	Intel (H)	INTC	91.75	108.75	17.00	18.53	18	0.16	0.15	112.88	56.13
NYS	LSI Logic (H)	LSI	56.13	68.00	11.88	21.16	29	0.00	0.00	69.00	19.63
NYS	Motorola	MOT	54.50	58.50	4.00	7.34	21	0.40	0.68	64.75	43.25
	COMMUNICATIONS										
NYS	AT&T	T	51.38	51.50	0.13	0.24	17	1.32	2.56	57.13	47.25
NYS	BellSouth Corp.	BLS	61.50	62.38	0.88	1.42	15	2.76	4.42	63.50	50.50
OTC	MCI	MCIC	21.63	20.56	-1.06	-4.91	15	0.10	0.49	25.88	17.25
NYS	Northern Telecom (H)	NT	39.50	35.88	-3.63	-9.18	24	0.44	1.23	41.00	27.63
NYS	Pacific Telesis	PAC	30.25	29.75	-0.50	-1.65	11	2.18	7.33	33.38	28.00

Note: Hewlett-Packard completed a 2-for-1 split.

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES....................	20
DECLINES....................	10
UNCHANGED................	0
NEW HIGHS..................	15
NEW LOWS..................	2

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER....................	Intel....................................	$	17.00
LARGEST DOLLAR LOSER.....................	Autodesk............................	$	-6.75
LARGEST PERCENTAGE GAINER...........	Dell.......................................		23.03 %
LARGEST PERCENTAGE LOSER............	Autodesk............................		-16.07 %

	CLOSE 04/12/95	CLOSE 05/10/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	6270.71	6571.21	300.51	4.79
DOW JONES INDUSTRIAL AVERAGE	4197.81	4404.62	206.81	4.93
STANDARD & POOR'S 500 INDEX	507.17	524.36	17.19	3.39
N.Y.S.E. COMPOSITE	274.04	282.41	8.37	3.05
NASDAQ COMPOSITE	828.53	847.62	19.09	2.30

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
09/16/94	5323.66	3933.35
10/27/94	5478.47	3875.15
12/16/94	5370.37	3807.19
01/18/95	5832.57	3928.98
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62

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486DX4/100	$2380	$2405	$2520
Pentium 90	$3555	$3580	$3690
Pentium 100	$3665	$3695	$3805

Dual Scan Color Display

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486DX2/66	$1735	$1765	$1875
486DX4/75	$1755	$1780	$1895
486DX4/100	$1825	$1855	$1965
Pentium 90	$2520	$2545	$2655
Pentium 100	$2630	$2660	$2770

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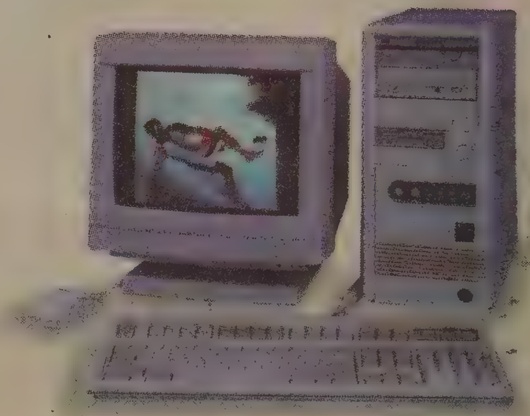

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BY JIM WARREN

Realizable Fantasies

Obedience Collars For Americans

Before 9:02 am on April 19th, I had hopes that we could renovate the freedom and privacy that Americans once thought was their heritage, facilitated in many ways by network-assisted public oversight of government and computer-aided protection of personal records and private communications. The Oklahoma City lunacy seems to have dashed those hopes.

Incumbent politicians and power-hungry bureaucrats are using the outrageous act of one or two Army-trained killers as excuse to endanger the liberty of 270 million Americans. (Am I still permitted to use the word "liberty," without being suspected of planning the violent overthrow of the government?)

"The greatest dangers to liberty lurk in insidious encroachment by men of zeal, well-meaning but without understanding."—Justice Louis D. Brandeis, dissenting, Olmstead v. United States, 277 U.S. 479 (1928)

Russia recently outlawed cryptography among its computer-using citizens. US officials were already hinting at such a prohibition, even before the Oklahoma City excuse fell into their laps.

Criticism Criticism

In prime-time television on April 23rd, President Clinton warned all of us who communicate with any group that we "should all be careful about the kind of language we use and the kind of the incendiary talk we have.... We need to show some restraint and discipline here."

Patrick Henry, Paul Revere, M.L. King, Jr., and Simon Wiesenthal—take note. However, rather than the subservience that incumbents prefer, I will do what other producers of dangerous materials do in this litigious, "they made me do it!" society—issue a warning, a disclaimer, and a disclosure:

Warning: I am about to criticize government. Some phrasing may be provocative. If you can't read criticism of government without blowing up childcare centers, skip this article.

Disclaimer: I live in a rural area and own guns. But I don't participate in paint-gun war games, don't own camouflage gear, and only have a few quart-cans of fertilizer.

And, no, I don't think government agents were responsible for the Oklahoma City bombing—although the thought did come to mind before I heard the magnitude of the disaster. After all, G. Gordon Liddy and Ollie North were once government agents, and the CIA funded Central American military officials who killed American citizens—about which congressional leaders wanted members to remain silent, and thus become accessories-after-the-fact.

Disclosure: I *do* own "munitions." They are so dangerous that it's a federal felony to export them without State Department approval—which is rarely granted; not even for exporting to our military allies and friendly democracies.

Armed And Dangerous?

In particular, I own several PGP units. No, contrary to the paranoia of the moment, PGP is not *really* a munition; that's just what the government calls it. It's Pretty Good Privacy—globally available cryptographic freeware, that implements scrambling techniques that were published worldwide in the open technical literature about fifteen years ago.

You can download it from dozens of Internet hosts around the US, including completely legal freeware from MIT. You can buy fully legal copies, including tech support, from ViaCrypt in Phoenix (602/944-0773). You can copy it for free from thousands of BBSes around the nation.

You can get it and other globally available cryptographic "munitions" from foreign companies, including those in some former Eastern Bloc countries—entrepreneurs who compete with US software publishers, who are excluded from offering truly secure crypto modules internationally.

Nonetheless, the feds call PGP and other world-published, globally available crypto, "munitions," and make it a major felony to export them.

The Cell-Phone Debacle

When cellular phone systems were first being designed, communications security experts warned that the proposed implementation without scrambling would leave conversations subject to evesdropping and leave the cell-phone ID-codes vulnerable to theft and abuse. So the infant cellular industry got a law passed to prohibit such things—and promptly sold millions of units

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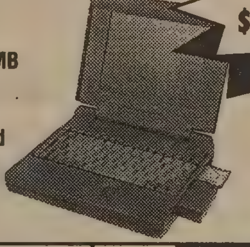

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Fantasies *continued...*

thereby declared to be "safe and secure."

The rampant eavesdropping—for fun, for personal surveillance, and for corporate information theft—and the billion-dollar losses and mis-billings due to stolen ID-codes has made it evident that better security is needed.

And uncrackable cellular security is easy to do. But...

When Crypto Is Outlawed...

Several years ago, the European Community cellular manufacturers tentatively settled on a digital standard that included fully secure scrambling of content and ID codes. But our government discovered it and demanded that it be stopped, threatening to block foreign manufacturers of such secure cellular phones from the US market if they didn't disable such protections.

So our billion-dollar cell-phone services thefts continue, and the few thieves who are caught and sent to prison, quickly train hundreds of fellow inmates in how easy and profitable it is to steal and sell services that our government has forced to remain insecure.

Federal law enforcement and "security" agencies haven't protected the public, but they *have* protected their ability to conveniently eavesdrop and track cellular-using US citizens.

But that's not enough. Like Oliver Twist, they want more, More, *MORE!*

Russia recently outlawed cryptography among its computer-using citizens. US officials were already hinting at such a prohibition, even before the Oklahoma City excuse fell into their laps.

In his April 27 testimony during the Senate Judiciary Committee's staged hearings on terrorism, FBI Director Louie Freeh made repeated references to the "need to get control of this cryptography problem."

While seeking expanded infiltration and surveillance authority, he assured the committee that his agents would honor the restraints imposed on them. However, in the next hearing, "Middle East terrorist expert" Steven Emerson—who ardently supported expanded surveillance—detailed how frustrated FBI agents had asked for permission to infiltrate a citizens' meeting; been refused because there was no crime expected or alleged; then checked all the attendees until they found one who was suspected of something, and used that as an excuse to enter and monitor the entire meeting.

Clearly, authoritarian governments don't like citizens to be able to file or exchange information without authorities having the ability to look and listen.

But hundreds of thousands of copies of crypto software are scattered all over the nation, and are almost certainly on every militiaman's computer. If—when?!—fully secure cryptography is outlawed, then only outlaws will have security.

And presumed-innocent citizens, law-abiding businesses, and out-of-favor politicians will be wide open to snooping by everyone who can gain access to their insecure-by-law communications and is willing to risk using the access.

Ever-Expanding Wiretapping Zeal

In 1994, Sen. Patrick Leahy and Silicon Valley's now-retired Representative Don Edwards authored HR 4922 mandating that the nation's public telephone systems be made wiretap ready—undetectable surveillance-at-a-keystroke, of anywhere, from anywhere, with no independent oversight. HR 4922 authorized half-a-billion tax dollars to make it easier to conduct about one thousand court-authorized US wiretaps annually. Incumbent President Clinton quickly—and very quietly—signed it into law, and hopes to be there long enough to use it.

The $500,000,000.00 was authorized, but still needs to be appropriated. Opposition to spending $500,000 per annual wiretap is being led by the Electronic Privacy Information Center (202/544-9240, *info@epic.org*).

But sooner or later, the nation will be made into a surveillance society for use by incumbent politicians and the bureaucrats who serve them—in the IRS, DEA, Customs, INS, Health and Welfare, Censorship Bureau, etc.

The Oklahoma City bomber opened more opportunities to seek even more freedom and authority to conduct wiretaps—apparently without the inconvenient bother of court orders—but only, of course, limited to every person who contacts any person who might be a member of any group that the President unilaterally and unappealably defines as a "terrorist" group.

Remember that the African National Congress (ANC), Irish Republican Army (IRA), FMLN in El Salvador, and PLO have all been called "terrorist" organizations.

Would presidential declarations of a group as being "terrorist" be public—or classified? If KKK members joined the American Independent Party, could the AIP then be declared terrorist? Secretly? How about Green Party eco-activists who spike old-growth redwoods and terrorize innocent loggers? How about all peace groups that included members of the Weather Underground?

Check out the Omnibus Counterterrorism Act—Senate Bill 390 and House Resolution 896, quietly introduced February 10th and now being fast-tracked through Congress with minimal, staged, biased hearings. Among other things, it would expand wiretap options, authorize secret trials of some immigrants, expand permitted use of illegally obtained evidence, and would suspend posse comitatus—allowing the use of the military troops (think Tim McVeigh!) to aid the police regardless of other laws—appropriate for the twentieth anniversary of Kent State.

> Sooner or later, the nation will be made into a surveillance society for use by incumbent politicians and the bureaucrats who serve them.

It creates a new federal crime of terrorism, but the Center for National Security Studies notes that, "Since the new offense does not cover anything that is not already a crime, the main purpose of the proposal seems to be to avoid certain constitutional and statutory protections that would otherwise apply."

For more information, contact Kit Gage, National Lawyers Guild (202)529-4225, *kgage@igc.apc.org)*.

Next Target?: The Internet

Finally, please note that the first shots have already been fired at the Internet. Congressional

continued on page 218

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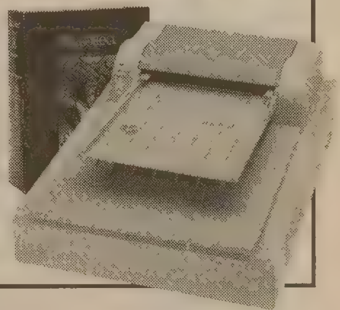

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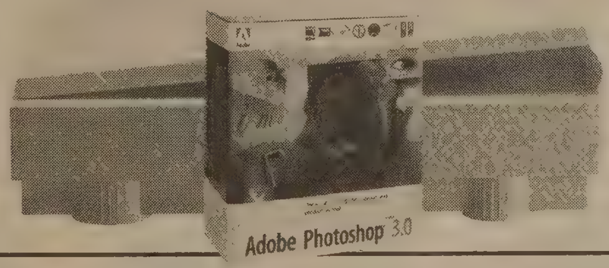

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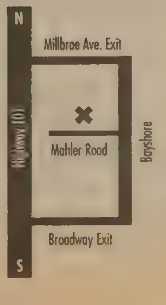

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Letters

New Look 'n' Feel A Winner

I'm writing to commend you on your new bound magazine. It is superbly put together. Now not only do we, the readers, get the latest and professional information, but we get to get it in the new and professional magazine as well. Keep up the good work.

And Thank You for keeping your wonderful magazine free. I'll be reading.

Bounrith Ly
via Internet

Thanks for reading! —*eds.*

More On PGP

I'm writing to fill some gaps in your magazine's otherwise excellent PGP article.

The current PGP version for the PC is 2.6.2. US nationals with the licensed PGP 2.6.2 freeware release or the current ViaCrypt release can communicate with foreign PGP users, simply by telling them to ftp a copy of PGP 2.6.x from any of the foreign sites that carry the interoperable and unlicensed versions of PGP 2.6 . The most current information on foreign PGP sites is available on the Usenet newsgroup alt.security.pgp .

The reason why the foreign site versions are unlicensed is that it is impossible under US law to license PGP outside the USA; foreign nationals cannot buy PGP from ViaCrypt, either.

Also, readers should know that it is possible to sign plain-text messages for public posts to online conferences or email by using the -sta option of PGP; this provides a practically unforgeable digital authentication that will tell any reader who runs the message through PGP that the message was without doubt signed by you.

A. Lizard
via Internet

Design Issues And Ease Of Use

First, allow me to compliment you on a truly informative magazine. The interview with Bob Stein in the April 3 issue was very interesting, and the May 1 issue contains a very informative Win vs. Warp article, but I must dispute Mr. Bailes on a point he states early in the article.

Mr. Bailes presents the Macintosh desktop as a standard of simplicity. This misses the point. No computer is simple; if they were, my mom would be using the one I got for her.

The reason why I feel shackled to my Windows machine at work and delight in firing up my Mac at home is not simplicity but *consistency*. The consistency issue could be compared to continuity in a movie. If the continuity of a movie or show is bad, the suspension of disbelief is broken and the viewer is disappointed.

Macintosh elements such as dialog boxes are consistent; commands, with the exception of added ones specialized to the thrust of the application, are as well.

Windows elements change radically from application to application, so as a user I must contend with an assortment of print and open and other dialog boxes that may be supplied by the Windows system or by the application. I don't want to even start about the menus and their content; suffice it to say I resent finding it necessary to adopt a different mind set for each application and the way it is organized.

> The reason why I feel shackled to my Windows machine at work and delight in firing up my Mac at home is not simplicity but *consistency.*

This is not to say Mac has cornered the market in consistency, far from it; but I believe this is a more useful concept and less prone to subjectivity than "ease of use" when used for OS comparison.

Of course I realize there is no way to quantify personal preference, but I do believe there are underlying principles of design that bolster or hinder the expression of that preference, and I believe this is one. Thank you for your patience and attention.

Edwin Bish II
Berkeley, CA
Michael Shalkey
via Internet

The Amiga-PC Transition: Another View

Douglas Nakakihara makes the PC clone look like an expensive alternative to the Amiga.

Gimme a break, Mr. Nakakihara; now that Commodore is dead you suddenly recommend to Amiga owners what PC to buy. You choose a mega-maxed-out setup, calling for 64MB of RAM and a 17" monitor. Then you have the nerve to say "...the real cost of moving to a PC is significant." How ridiculous; 64MB of RAM and a premium 17" monitor would make any platform, including an Amiga system, a "real cost."

For the real world, just look in *MicroTimes*; Computix is offering a more reasonable P5-90, 850MB hard drive, 16MB RAM, 15" monitor system for $2495, which would blow away any current Amiga with respect to CPU performance. Even more strange is Mr. Nakakihara's own personal choice for a PC clone: a 486SX33 monochrome laptop? Why such a wimpy choice after such mighty recommendations? Powerful PC clones are cheap; for the price of that laptop, Mr. Nakakihara could get a DX4/100 with a 15" flat screen color monitor and a huge hard drive.

The Amiga is sunk; Motorola isn't going to

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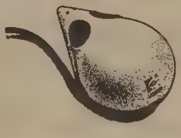

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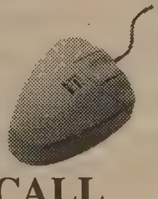

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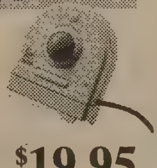

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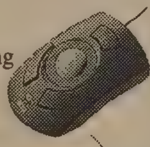

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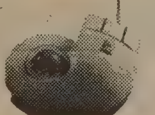

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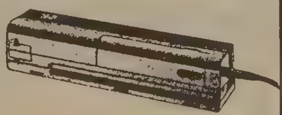

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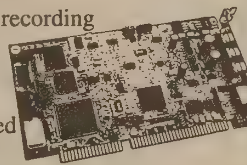

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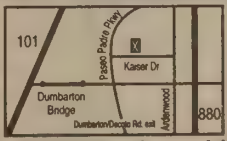

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From the East Bay, take the Dumbarton Bridge exit off the I-880. Take the Ardenwood exit and turn right on Ardenwood. Turn left on Kaiser Dr. You'll find us located to your right at 6607 Kaiser Dr.

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If the continuity of a movie or show is bad, the suspension of disbelief is broken and the viewer is disappointed.

stop their PowerPC production lines to make 68060 CPUs. The Amiga will be forever locked in the technology of 1992, while the rest of the industry has advanced. It is time to give the Commodore and Amiga a moment of silence and get on with it.

Gary G. Kovacs
via Internet

Request For Help

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We are seeking donations of any kind of computer equipment and peripherals for the purpose of our office work, production and storage of plays, records keeping, and graphics and publicity production. Anything from 8086s to Pentiums, 9-pin printers to lasers, scanners, OCR, etc.

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○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES
○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #. If Preference

Step 1: Enter NoteBook Brand Name & Model #. If Preference

Quantity / Choices
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
10 or More ○

My Budget For System Is ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000

Call Me For A More Detailed Quote. ○

Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: CONFIGURATION REQUESTS:

CPU ○ PENTIUM ○ 486 ○ 386 ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz SPEED:
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40 ○ 33

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB
and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External
○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower
○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB
○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SOFTWARES NEEDED: ○ DOS ○ OS2
○ Mac ○ UNIX ○ MS Windows

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal
○ IDE ○ SCSI ○ External

CD ROM TITLES INCLUDED:
○ 1-5 ○ 5-10 ○ 11+

SPEED
○ 2X
○ 3X
○ 4X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number

SOUND CARD
○ 16Bit
○ 32Bit

SPEAKERS
○ Less Than 25W
○ 25 to 50W
○ 50 to 75W
○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono
○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I
○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station
○ Fax Modem ○ Extra Battery

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

STEP SIX: UPGRADES and PERIPHERALS. ○ Ink Jet Printer ○ Tape Backup ○ Accelerator
○ Color Printer ○ Dot Matrix Printer ○ Laser Printer ○ Flat Bed Scanner ○ Digitizer ○ Hand Scanner

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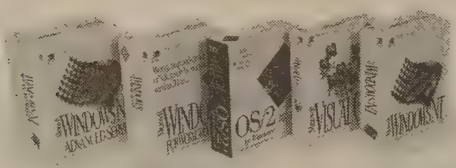

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★ System of The Month ★

- **Intel Zappa Motherboard**
- **Triton Chipset**
- **Intel Pentium Processor & CPU FAN**
- **8MB EDO Ram Exp. to 128MB**
- **Diamond Stealth 64 PCI Video Card w/1MB DRAM**
- **14" NI Monitor**
- 1.44MB Floppy Drive
- 420MB IDE HDD
- On Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Double Speed CD ROM

75MHz	*$1749*
90MHz	*$1849*
100MHz	*$1949*
120MHz	*$2449*

Lease for as low as $73 p/m

BLACK
Student's Dream

- **Intel Zappa Motherboard**
- **Triton Chipset**
- **Intel Pentium Processor & CPU FAN**
- **8MB EDO Ram Exp. to 128MB**
- **Diamond Stealth 64 PCI Video Card w/1MB DRAM**
- **15" NI Monitor**
- 1.44MB Floppy Drive
- 540MB SCSI HDD
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Quad Speed CD ROM

75MHz	*$2249*
90MHz	*$2349*
100MHz	*$2449*
120MHz	*$2949*

Lease for as low as $94 p/m

RED
At Home

- **Intel Zappa Motherboard**
- **Triton Chipset**
- **Intel Pentium Processor & CPU FAN**
- **8MB EDO Ram Exp. to 128MB**
- **Diamond Stealth 64 PCI Video Card w/2MB DRAM**
- **17" NI Monitor**
- 1.44MB Floppy Drive
- 850MB IDE HDD
- On Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

Impression Quad Speed Multimedia Kit

- Quad Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speakers
- Microsoft Encarta 95
- Microsoft Works
- Microsoft Money
- Microsoft Entertainment Pack

75MHz	*$2495*
90MHz	*$2595*
100MHz	*$2695*
120MHz	*$3195*

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MAGENTA
Lifestyle

- **Intel Zappa Motherboard**
- **Triton Chipset**
- **Intel Pentium Processor & CPU FAN**
- **16MB EDO Ram Exp. to 128MB**
- **Diamond Stealth 64 PCI Video Card w/2MB VRAM**
- **MAG 17" NI Monitor**
- 1.44MB Floppy Drive
- 1.0 GB SCSI HDD
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Full Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Quad Speed SCSI CD ROM

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100MHz	*$3695*
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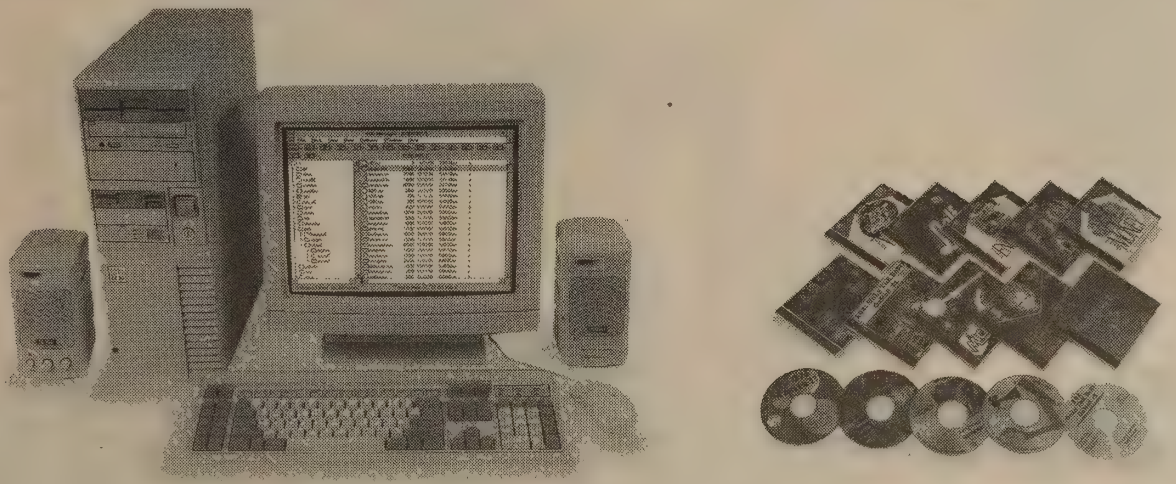

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PURPLE
Home/Office Best Buy System

- Intel Zappa MB Triton Chipset w/256K Cache
- Intel Pentium Processor & CPU FAN
- 4MB Ram Exp. to 128MB
- Diamond Stealth 64 PCI Video Card w/1MB DRAM
- 14" NI Monitor
- 1.44MB Floppy Drive
- 420MB IDE HDD
- On Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Double Speed CD ROM

75MHz	*$1595*
90MHz	*$1695*
100MHz	*$1795*
120MHz	*$2295*

Lease for as low as $67 p/m

SILVER
Family PC System

- Intel Zappa MB Triton Chipset w/256K Cache
- Intel Pentium Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- Diamond Stealth 64 PCI Video Card w/2MB DRAM
- 15" NI Monitor
- 1.44MB Floppy Drive
- 540MB SCSI HDD
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Quad Speed CD ROM

75MHz	*$2295*
90MHz	*$2395*
100MHz	*$2495*
120MHz	*$2995*

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GRAY
Top Of The Line System

- Intel Zappa MB Triton Chipset w/256K Cache
- Intel Pentium Processor & CPU FAN
- 16MB Ram Exp. to 128MB
- Diamond Stealth 64 PCI Video Card w/2MB VRAM
- 17" NI Monitor
- 1.44MB Floppy Drive
- 1.2 GB IDE HDD
- On Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

Media Magic Quad Speed Multimedia Kit

- Quad Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speakers
- Compton's Encyclopedia 95
- Chessmaster 3000
- Mavis Beacon Teaches Typing
- US Altas & World Atlas

75MHz	*$2995*
90MHz	*$3095*
100MHz	*$3195*
120MHz	*$3695*

Lease for as low as $118 p/m

BLUE
Dream Machine

- Intel Zappa MB Triton Chipset w/256K Cache
- Intel Pentium Processor & CPU FAN
- 16MB Ram Exp. to 128MB
- ATI Graphic Pro Turbo Mach64 PCI Video w/2MB VRAM
- Nokia 447X 17" Monitor
- 1.44MB Floppy Drive
- 1.0 GB SCSI HDD
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Quad Speed SCSI CD ROM

75MHz	*$3995*
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120MHz	*$4695*

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- **Diamond Stealth 64 PCI Video Card w/1MB DRAM**
- **14" NI Monitor**
- 1.44MB Floppy Drive
- 420MB IDE HDD
- On Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Double Speed CD ROM

60MHz	*$1449*
66MHz	*$1499*
75MHz	*$1549*
90MHz	*$1649*
100MHz	*$1749*

Lease for as low as $61 p/m

GOLD
Workstation

- **Asus Pentium Motherboard w/256K Cache**
- **Intel Pentium Processor & CPU FAN**
- **4MB Ram Exp. to 128MB**
- **Diamond Stealth 64 PCI Video Card w/1MB DRAM**
- **15" NI Monitor**
- 1.44MB Floppy Drive
- 540MB SCSI HDD
- NCR PCI SCSI Controller
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- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Double Speed CD ROM

60MHz	*$1695*
66MHz	*$1745*
75MHz	*$1795*
90MHz	*$1895*
100MHz	*$1995*

Lease for as low as $71 p/m

WHITE
Powerstation

- **Asus Pentium Motherboard w/256K Cache**
- **Intel Pentium Processor & CPU FAN**
- **8MB Ram Exp. to 128MB**
- **Diamond Stealth 64 PCI Video Card w/2MB DRAM**
- **15" NI Monitor**
- 1.44MB Floppy Drive
- 540MB IDE HDD
- On Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

Impression Quad Speed IDE Multimedia Kit

- Quad Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speakers
- Microsoft Encarta 95
- Microsoft Works
- Microsoft Money
- Microsoft Entertainment Pack

60MHz	*$1975*
66MHz	*$2025*
75MHz	*$2075*
90MHz	*$2175*
100MHz	*$2275*

Lease for as low as $82 p/m

ORANGE
CAD Station System

- **Asus Pentium Motherboard w/256K Cache**
- **Intel Pentium Processor & CPU FAN**
- **8MB Ram Exp. to 128MB**
- **Diamond Stealth 64 PCI Video Card w/2MB DRAM**
- **17" NI Monitor**
- 1.44MB Floppy Drive
- 540MB SCSI HDD
- NCR PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

Impression Quad Speed SCSI Multimedia Kit

- Quad Speed SCSI CD ROM
- 16 Bit Sound Card & Stereo Speakers
- Microsoft Encarta 95
- Microsoft Works
- Microsoft Money
- Microsoft Entertainment Pack

60MHz	*$2525*
66MHz	*$2575*
75MHz	*$2625*
90MHz	*$2725*
100MHz	*$2825*

Lease for as low as $105 p/m

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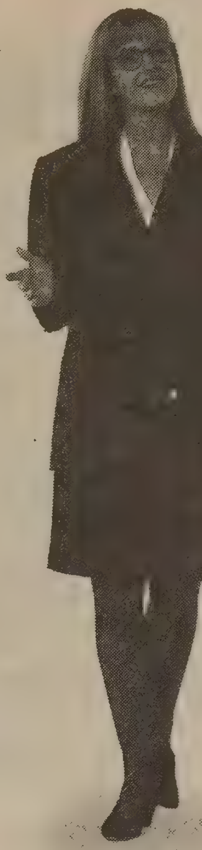
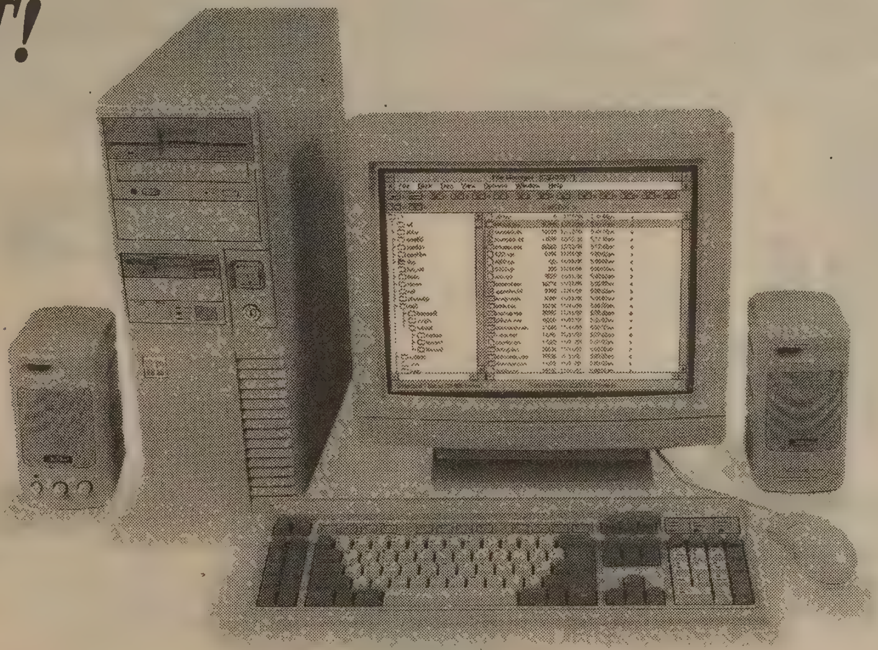


VISUAL C++
WINDOWS NT
WINDOWS NT ADVANCED SERVER
WINDOWS
OS/2



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* Only w/system sale

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VESA Local Bus Best Buy

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- **Intel 486 Processor & CPU FAN**
- **4MB Ram Exp. to 128MB**
- **32-Bit VLB Graphic Accelerator Card w/1MB**
- **14" NI Monitor**
- 1.44MB Floppy Drive
- 420MB IDE HDD
- VLB 2H/2F IDE Controller
- 2-Serial Ports 1-Parallel Port
- Mini Tower Case w/230W Power Supply
- 101-key Enhanced Keyboard
- 3 Button Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Double Speed CD ROM

66MHz ***$1159***
100MHz ***$1229***

Lease for as low as $49 p/m

CYAN
Challenger

- **Asus 486 PCI VLB Motherboard w/256K Cache**
- **Intel 486 Processor & CPU FAN**
- **4MB Ram Exp. to 128MB**
- **Diamond SpeedStar Pro PCI Video Card w/1MB**
- **14" NI Monitor**
- 1.44MB Floppy Drive
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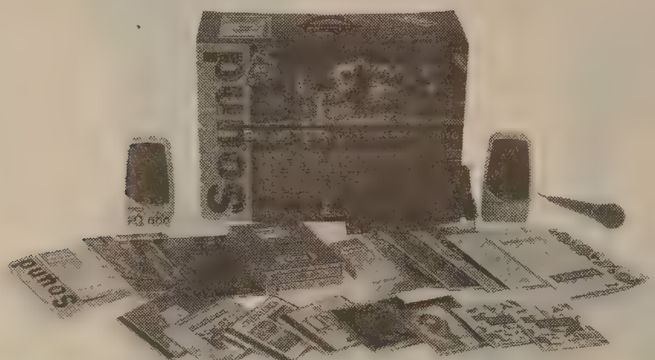

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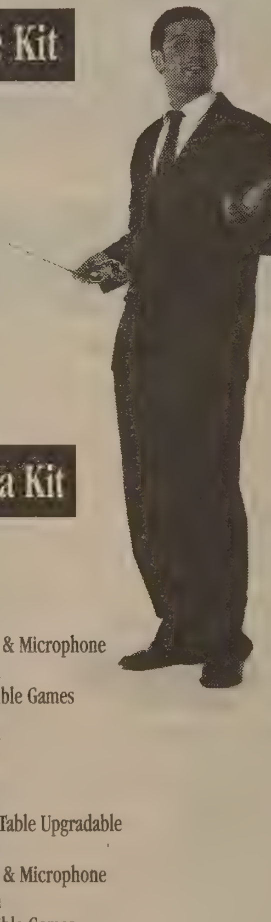

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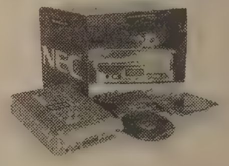

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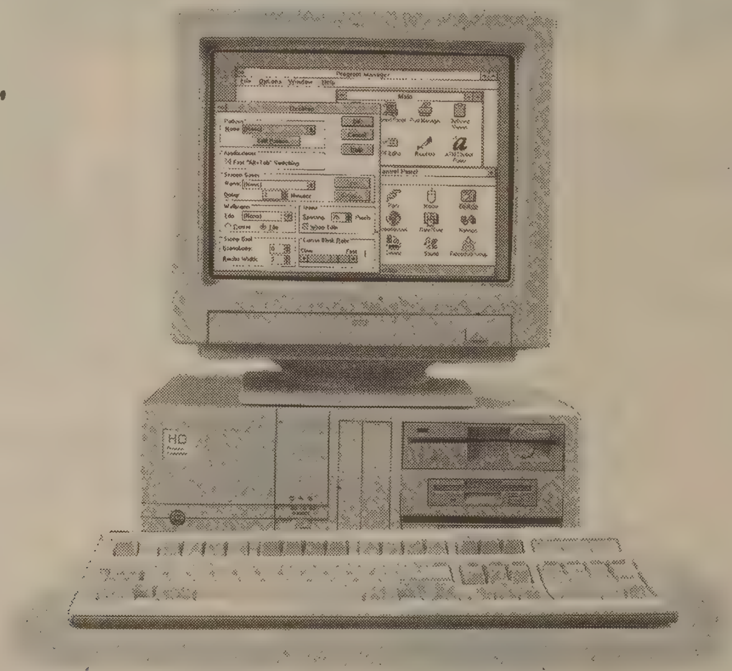

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3C509 Etherlink III Coax/TP	***$117***
3C509 Etherlink III 5pack	***$528***

Ethernet Adapters

SMC

Ether card plus elite 16 Coax/TP	***$119***
Elite ultra 16bit Coax/TP	***$115***
Elite ultra 16bit 6pack/24pack	***$675/2375***
SMC Ultra 16 Bit Ethernet Combo	***$135***

Cogent

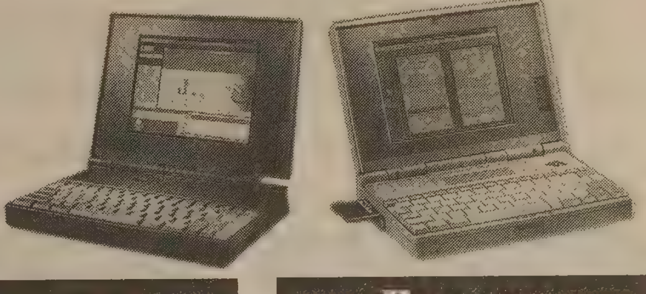
PCMCIA UTP	***$199***
32-bit PCI Full Duplex Combo	***$159***
32-bit PCI Full Duplex UTP	***$139***
32-bit PCI 4-Port UTP Full Duplex	***$529***

INFO Express Ethernet Adapter

16Bit BNC/10TP	***$60***
32Bit VLB/Combo	***$139***

Victoria™ Series NOTEBOOKS

COMPAQ



COMPAQ
DESKPRO XL

COMPAQ
Deskpro XE

- **Pentium 90 MHz CPU**
- Desktop Case
- 8MB RAM Expandable to 136MB
- 420MB IDE Hard Disk
- 1024x768 1MB VRAM SVGA Card
- MS DOS 6.2 & Windows 3.1
- Qued Speed CD ROM IN
- Tabworks
- Serial Mouse
- 101 Key Keyboard
- Energy Star Compliant
- 3 Year Worldwide Limited Warranty
- **Monitor Sold Seperately**

$2595

COMPAQ
Prolinea MT

- **486DX2-66 CPU**
- Mini Tower Case
- 420MB HDD
- 4MB RAM Expandable to 64MB
- 1024x768 1MB SVGA Card
- MS DOS 6.2 & Windows 3.1
- Tabworks
- Serial Mouse
- 101 Key Keyboard
- Energy Star Compliant
- 3 Year Worldwide Limited Warranty
- **Monitor Sold Seperately**

$1759

COMPAQ
Contura 400 Notebook

- **486DX2-40 CPU w/8KB Internal Cache**
- 250MB HDD
- 4MB RAM Expandable to 20MB
- 2 PCMCIA Type II Slots or 1 Type III
- Built-in Trackball
- AC Adaptor/Rechargable Battery
- Weighs 5.9 lbs
- 3 Year Worldwide Limited Warranty

400C PM $2245
400CX AM $2795

VISUAL C++
WINDOWS NT
WINDOWS NT
WINDOWS
OS/2

Warranty Service for Compaq and Everex is Carried By Manufacturer Direct!

EVEREX

- ***3 Years Warranty***
- ***First Year On-Site Service***
- ***24 Hours Swap***
- Intel Enhanced Processor
- 4MB Expandable to 20 MB
- Removable Display Color DSTN
- Removable 1.44 FDD Disk Drive
- Removable Built-in Trackball
- Removable HDD, 120MB TO 500 MB
- Accelerated 32-bit VESA Local Bus VGA
- 86K, Full function Keyboard
- Built-in Microphone and Speaker
- One PCMCIA Type III or Two PCMCIA Type II
- Dimensions and Weight: Color DSTN: 11.3" x 8.8" x 1.6"; 5.7 lbs

Step Note 4MB (DX2/50, DSTN, NIMH)	
250MB/HD EXO-2804P-DCDP	*$2343*
340MB/HD EXO-2804P-DDDP	*$2348*
524MB/HD EXO-2804P-DEDP	*$2517*
810MB HD EXO-2804P-EFDP	*$3034*
Step Note 4MB (DX2/66, DSTN, NIMH)	
250MB/HD EXO-2804Q-DCDP	*$2343*
340MB/HD EXO-2804Q-DDDP	*$2346*
524MB/HD EXO-2804Q-DEDP	*$2517*
810MB HD EXO-2804Q-EFDP	*$3034*
Step Note 4MB (DX4/75, DSTN, NIMH)	
250MB/HD EXO-2904T-DCDP	*$2493*
340MB/HD EXO-2904T-DDDP	*$2498*
524MB/HD EXO-2904T-DEDP	*$2667*
810MB HD EXO-2904P-EFDP	*$3034*
Step Note 4MB (DX4/100, DSTN, NIMH)	
250MB/HD EXO-2904R-DCDP	*$2576*
340MB/HD EXO-2904R-DDDP	*$2590*
524MB/HD EXO-2904R-DEDP	*$2750*
810MB HD EXO-2904R-EFDP	*$3034*

EVEREX

- ***3 Years Warranty***
- ***First Year On-Site Service***
- ***24 Hours Swap***
- Intel Enhanced Processor
- 4MB Expandable to 20 MB
- Removable Display Color TFT
- Removable 1.44 FDD Disk Drive
- Removable Built-in Trackball
- Removable HDD, 120MB TO 500 MB
- Accelerated 32-bit VESA Local Bus VGA
- 86K, Full function Keyboard
- Built-in Microphone and Speaker
- One PCMCIA Type III or Two PCMCIA Type II
- Dimensions and Weight: Color TFT: 11.3" x 8.8" x 1.7"; 6 lbs

Step Note 4MB (DX2/50, TFT, NIMH)	
250MB/HD EXO-2804P-TCDP	*$3445*
340MB/HD EXO-2804P-TDDP	*$3029*
524MB/HD EXO-2804P-TEDP	*$3203*
810MB HD EXO-2804P-GFDP	*$4135*
Step Note 4MB (DX2/66, TFT, NIMH)	
250MB/HD EXO-2804Q-TCDP	*$3445*
340MB/HD EXO-2804Q-TDDP	*$3069*
524MB/HD EXO-2804Q-TEDP	*$3244*
810MB HD EXO-2804Q-GFDP	*$4136*
Step Note 4MB (DX4/75, TFT, NIMH)	
250MB/HD EXO-2904T-TCDP	*$3136*
340MB/HD EXO-2904T-TDDP	*$3136*
524MB/HD EXO-2904T-TEDP	*$3311*
810MB HD EXO-2904T-GFDP	*$3606*
Step Note 4MB (DX4/100, TFT, NIMH)	
250MB/HD EXO-2904R-TCDP	*$3687*
340MB/HD EXO-2904R-TDDP	*$3270*
524MB/HD EXO-2904R-TEDP	*$3445*
810MB HD EXO-2904R-GFDP	*$3740*

EVEREX

- ***3 Years Warranty***
- ***First Year On-Site Service***
- ***24 Hours Swap***
- Intel Enhanced Processor
- 4MB Expandable to 20 MB
- Removable Display Mono STN
- Removable 1.44 FDD Disk Drive
- Removable Built-in Trackball
- Removable HDD, 120MB TO 500 MB
- Accelerated 32-bit VESA Local Bus VGA
- 86K, Full function Keyboard
- Built-in Microphone and Speaker
- One PCMCIA Type III or Two PCMCIA Type II
- Dimensions and Weight: Mono STN: 11.3" x 8.8" x 1.5"; 5.3 lbs

Step Note 4MB (DX2/50, Mono, NIMH)	
250MB/HD EXO-2804P-M3DP	*$1764*
340MB/HD EXO-2804P-M4DP	*$1767*
524MB HD EXO-2804P-M5DP	*$1938*
Step Note 4MB (DX2/66, Mono, NIMH)	
250MB/HD EXO-2804Q-M3DP	*$1764*
340MB/HD EXO-2804Q-M4DP	*$1767*
524MB/HD EXO-2804Q-M5DP	*$1938*

EVEREX
Notebook Upgrade

4MB MEM KIT	KIT-00360-0000	$216
16MB MEM KIT	KIT-00361-0000	$845
14.4 Modem PCMCIA	PER-01080-0000	$147
28.8 Modem PCMCIA	PER-01080-0000	$280
Eithernet PCMCIA	PER-01082-0000	$134
Stepnote Battery	SUB-00723-0000	$118
Docking Station	EVO-00092-0000	$328
AC Adapter	POW-00080-4000	$43
Portable 2X CD-ROM Drive	Per-01129-0000	$318
250MB HD	KIT-00364-0000	$275
340MB HD	KIT-00365-0000	$288
524MB HD	KIT-00366-0000	$480
810MB HD	KIT-00395-0000	$748

EMAIL
hd@hdcomputer.com

SALES HOURS:
9:00AM - 6:00PM WEEKDAYS,
10AM - 6PM SATURDAYS (PACIFIC TIME)

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Tel: (408)720-0493/Fax: (408)720-1967
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Tel: (415) 434-8118/Fax: (415) 434-8128
500Washington St., San Francisco, CA 94111

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Tel: (510)528-0753/Fax: (510) 528-0757
10005 San Pablo Ave., El Cerrito, CA 94530

SACRAMENTO
Tel: (916) 483-4278/Fax: (916) 483-4826
2530 Watt Ave., Sacramento, CA 95821

FRESNO
Tel: (209) 446-0809/Fax: (209) 446-0819
6481 North Blackstone Ave., Fresno, CA 93710

TERMS AND CONDITIONS: • 30 days return policy • 1 year parts + labor warranty • Major credit cards accepted • No surcharge for VISA, MC, AE and Discover Cards • Quality PO's accepted from Academic, Corporate and Public Institutions • APO's welcome • Shipping charge not refundable • Return shipments must be insured, prepaid and bear an RMA# on the shipping label. • Price does not include shipping • Price are subject to change without notice • Component warranties offers and claims are handled by the manufacturer.
• Components Compatibility is not guaranteed
• No return on used items • All open returns are subject to 15% restocking fee
• No exchanges or refunds on CD's will be replaced with the same item only ..
• Allow 14 days to process refund. • Not Responsible for typographical errors.
• Price good thru' June 31, 1995

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VICTORIA SERIES

Monthly Special

17" SVGA Monitor	*$439*
420MB IDE Conner HDD	*$155*
Sony 55E 2X CD ROM	*$115*
50 Watt Stereo Speaker	*$29*
US Robotics 144 INT	*$89*
NE-2000 Ethernet Card	*$25*

Clearance Items

Available at Sunnyvale Location Only

Logitech Audioman	$69
Logitech Soundman	$79
Gallant SC 50 8Bit Sound Card	$39
Gallant SC 6000 16Bit Sound Card	$89
NEC 3XE CD ROM	$369
Plextor 2X EXT CD ROM	$270
Plextor 2X INT CD ROM	$199
Tyin 2000 Modem	$149
24/48 Modem	$29
Zoltrix 24/96 Modem	$39
Genoa 8900 PCI SVGA Card W/2MB	$169

Motherboards

American Megatrends AMI (W/CPU)

60 MHz EISA/PCI Excalibur 256K	$1195
60 MHz PCI/VLB Excalibur 256K	$1095
60 MHz PCI/ISA Excalibur 256K	$1095
486 EISA/VESA Enterprise III 256K 33/66MHz	$860/945
486 EISA/VESA Enterprise IV 256K 33/66MHz	$740/835
486 VLB/ISA Super Voyager 256K 33/66MHz	$575/695

Micronics (W/O CPU)

90 MHz PCI /ISA Neptune 256K	$445
66/60 MHz EISA/PCI M5PE 256K	$615
60 MHz PCI/ISA 3PCI Slots 256K	$485
486 EISA E2 256K	$395
486 EISA/VLB 256K	$495
486 JX30 VLB/ISA 256K	$285
486 VLB/ISA 256K	$235

Asus (W/O CPU)

90 MHz EISA/PCI Dual Processor	$895
60 MHz EISA/PCI 256K	$395
486 PCI/ISA Saturn 256K on Board IDE SCSI	$269
486 VLB/ISA SIS Green 128K	$119
486 VLB/ISA Support DX4 256K	$149
Pentium586 -90MH PCI/ISA/256K	$295
Pentium586 -66/60MH PCI/ISA/256K	$295
486 PCI VLB/256K	$149
Asus Pentium Triton 256K	$329

Intel (W/O CPU)

Intel Zappa Triton/8MB EDO RAM	$649
Intel Zappa Triton/256K MB	$349

Controllers

adaptec

1522A ISA/SCSI Fast w/Kit	$139
1542CF ISA/SCSI Bus Master w/Kit	$249
1542CF+ ISA/SCSI w/Corel Kit	$314
2742T EISA/SCSI 14HDS w/Kit	$359
2842VL VLB/SCSI Fast w/Kit	$259
2825VLK Fast SCSI w/E IDE	$259

Controllers

adaptec

2940 PCI/SCSI w/Kit	$279
2940W PCI/SCSI Wide SCSI w/Kit	$379
PCMCIA SLIM SCSI	$289
SGSI AudioMachine™	$298
TotalCD™	$49
TotalConnect™	$89
TotalAdvantage™ VL	$159

AMI American Megatrends

EISA/SCSI Caching Controller	$389

DTC

DTC 2278 VLB/IDE	$39
DTC 3280 ISA/SCSI	$139
DTC 3270 VLB/SCSI	$119
DTC 3290 EISA/SCSI Caching	$499

Buslogic

BT 542B ISA/SCSI Bus Master w/Kit	$209
BT 545S ISA/SCSI Fast w/Kit	$208
BT 445S VLB/SCSI w/Kit	$199
BT 742KT EISA/SCSI w/Kit	$329
BT 747AK EISA/SCSI Fast	$369
KT 946C PCI/SCSI Support 8GB	$239

Future Domain

TMC 850 ISA/SCSI 8Bit	$59
TMC 1670 ISA/SCSI 16Bit	$149
TMC 1680 ISA/SCSI/4FD	$139

Q Logic

Fast ISA/SCSI Kit	$124
Fast VLB/SCSI Kit	$189
Fast EISA/SCSI Kit	$199
Fast PCI/SCSI Kit	$289

NCR

NCR PCI/SCSI 810 SCSI II	$95
NCR PCI/SCSI 825 SCSI II & Wide SCSI	$145

Trantor

EPP Mini SCSI	$209

Others

PCI/IDE IDE Enhanced	$42
DPT EISA/SCSI Fast w/Kit	$419
VLB/IDE w I/O	$45
ISA/IDE 16Bit w I/O	$25
Super IDE 16Bit w/16550	$59
AT/IO 2 Serial 1 Parallel	$19

Video Cards

ATI

Graphics Ultra Pro Turbo 64 PCI/4MB	$519
Graphics Ultra Pro Turbo 64 PCI/VLB/2MB	$335
Graphics Expression PCI/VLB 1MB DRAM	$159
Graphics Expression PCI/VLB 2MB DRAM	$199

Diamond

Stealth 64 PRO Video PCI/2MB VRAM	$309
Stealth 64 PRO Video PCI/4MB VRAM	$425
Stealth 64 PCI/VLB/2MB DRAM	$189
Stealth 64 PCI/VLB/1MB DRAM	$139
Viper Pro Video PCI/2MB	$429
Viper SE PCI/VLB/4MB	$425
Viper SE PCI/VLB/2MB	$329
Speed Star 64 2MB	$189
Speed Star 64 1MB	$144
Stealth 32 PCI/2MB	$189
Speed Star Pro PCI/VLB/1MB	$119

matrox VIDEO PRODUCTS GROUP

MGA-Ultima 2MB VLB	$199
MGA Impression Plus 2MB (Upgradeable to 4MB)	$395
MGA Impression Lite PCI/VLB 2MB	$325
MAT Impression Plus 2MB/220 PCI	$475
MAT Impression PLus 4MB	$499
2MB Memory for MGA-Ultima Plus	$210

Number Nine

9GXe 64 PCI/VLB/1MB	$169
9GXe 64 PCI/VLB/2MB	$249
9GXe 64 Pro PCI/VLB/2MB	$349
9GXe 64 Pro PCI/VLB/4MB	$499
9GXe 64 Pro-1600 PCI/VLB 2MB VRAM	$589
9GXe 64 Pro-1600-100 PCI/VLB 4MB VRAM	$589
9GXe 64 Imagine-128 PCI 4MB VRAM	$849
9GXe 64 Imagine-128-1600 PCI 4MB VRAM	$1135
9GXe Memory Upgrade from 2MB to 4MB	$199

Orchid

Kelvin 64 VLB/PCI/2MB	$229
Kelvin 64 VLB/PCI/1MB	$159
Fahrenheit T64 PCI/VLB 1MB DRAM	$179

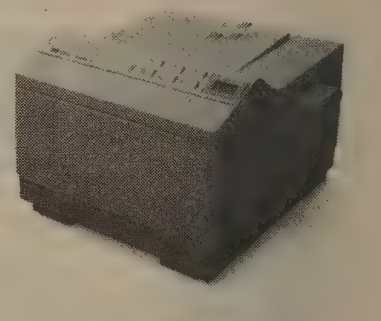
Others

M.G.P. Card	$15
256K ISA/VGA	$35
1MB ISA/SVGA	$59
1MB DRAM Upgrade	$48
1MB VRAM Upgrade	$85

Printer

HEWLETT PACKARD

Portable 320	$299
Deskjet 540	$295
Deskjet 560C	$495
Laserjet 4L	$499
Laserjet 4+	$1399
Laserjet 4V	$1895
Laserjet 4si	$2895
5MP	$1395
Color Kit for 540	$49
Postcript for HP4 Laser	$329
Postcript for HP4si	$575
Memory for HP	$75 PerMB
Toner for HP4	$109
Toner for HP4L 4P	$69



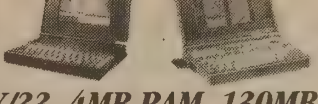
Okidata

400e/410 e	$475/639
Alps Lsx 1000 Laser	$1190
Printer Stand	$14.50

Accessory

Printer Cable 6"	$2.99
Printer Cable 10"	$3.99
Printer Cable 15"	$5.99
Keyboard Ext Cable	$2.99
VGA Ext Cable	$5.99
RS232 Cable M/F 6"	$3.99
SCSI Cable 3"	$3.99
3M MC3000 Tape	$33
3M DC2120 170mb	$29
3M DC2120 120mb	$15
3M DC6525 Tape	$38
Sony 5122F Tape	$58
3 1/2" 25Disk Formatt	$7.69
5 1/4" 25Disk Formatt	$6.50
3M 3 1/2" 10Disk	$7.90
3M 5 1/4 10Disk	$6.50

Clearance Items (Notebooks)



TwinHead Mono 486 SLC/33, 2MB RAM, 80MB	*$750*
TwinHead Mono 486DX/33, 4MB RAM,120MB	*$1195*
TwinHead Dual 486DX/33, 4MB RAM,340MB	*$1820*
TwinHead Active 486DX/33, 8MB RAM,130MB (Includes 14.4 Fax Modem)	*$2450*
Halikan Mono 386SX/33, 4MB RAM, 130MB	*$650*
Mitec Dual 486SX/33, 4MB RAM, 130MB	*$1150*
Sager Dual 486DX2/66, 4MB RAM, 270MB (Includes 14.4 Fax/Modem)	*$2350*

Tape Drive

COLORADO MEMORY SYSTEMS INC.

Colorado Internal 700	$249
DJ-20 250MB/INT	$129
DJ-35 350MB/INT	$159
DJ-1400 1.5GB INT	$399
Tracker 250MB EXT	$259
Tracker 350MB EXT	$339
Tracker 700MB EXT	$389
T1000 400-800MB INT	$235
FC-20 Controller	$79
Power Tape PT-25 2GB/INT	$965
Power Tape PT-50 4GB/INT	$1525

CONNER

2150S Viper 250MB INT/EXT	$317/424
420MB INT/EXT	$169/320
850MB INT	$263
2525S Viper 525MB INT/EXT	$459/559
2750 1.3GB INT/EXT	$799/899

WangDAT

3100DAT 2.0GB INT/EXT	$719/829
3200DAT 4-8GB INT/EXT	$759/869

HEWLETT PACKARD

2.0GB	35470DAT	INT/EXT	$759/819
4-8GB	35480DAT	INT/EXT	$859/945
4-16GB	C1533A	INT/EXT	$1019/1115
Mounting Kit			$35

EXABYTE

2.0GB	EXB-4200C	INT/EXT	$949/1035
5.0GB	EXB-8505	INT/EXT	$2069/2499
1.5GB	EXB-2501	2NT/EXT	$529/685

Monitors

NEC

2V 1024 x 768 .28 Flat	$309
XV14 1024 x 768 .28 Flat	$325
XV15 1024 x 768 .28 Flat	$449
XV17 1024 x 768 .28 Flat	$799
XE15 1024 x 768 .28 Flat	$549
XP15 1024 x 768 76HZ	$649
XE17 1024 x 768 .28 Flat	$995
XP17 1024 x 768 76HZ	$1249
XE21 1028 x 1024 .28 76HZ	$1995
XP21 1600 x 1200 76HZ	
Opticlear	$2495

Sony

GPD 1425	$349
GPD-15SF 15"NI 1280x1024 .25	$499
GDM-17SE 17"NI 1600x1200 .25	$1095
GDM-20SE 20"NI 1280x1024 .30	$1895
GDM-17SF 17"NI	$849

NANAO

F550i 17"NI 1280x1024 .28	$879
F550iw 17"NI 1280x1024 .28	$989
F560iw 17"NI Green Monitor	$1269
F560i 17"NI 1280x1024 .25	$1395
F660i 20"NI 1280x1024 .31 Trintron	$2095
F760iw 21"NI 1280x1024 .31	$1925
F780iw 21"NI 1600x1280 .26	$3115
T-2 17" NI	$1299
T-217 TS	$1025
T-2 20"	$1959
F-2 17"	$859
F-2 17" EX	$984
F-2 15"	$544

NOKIA

449E 15"NI 1280x1024 .28	$469
447X 17"NI 1600x1280 .25	$999
445M 21"NI 1280x1024 .26	$1999
445X 21"Ni 1600x1280 .26	$2399
447L	$739

MAG

DX15F 15"NI 1280x1024 .28	$389
DX17F 17"NI 1280x1024 .26	$649
MX17FG 17"NI Green, Led, Flat	$849
MXP-17F 17" NI 1600X1280	$999
MX21 NI 1600X1280	$2499

ViewSonic

V-6E 14"NI .28	$265
15"G NI 1024x768 .28	$429
V-17 17"NI 1600x1280 .27	$849
V-17GS 17"NI 1280x1024 .28	$759
V-20 20"NI 1600x1280 .28	$1299
V-21PS 21"NI 1600x1280 .26	$1669
20PS	$1449
15ES	$379

Impression

1439 14" 1024x768 .39	$205
1428 14" 1024x768 .28	$225
1428N 14"NI 1024x768 .28	$235
IMP-17 17"Ni 1280x1024 .26	$649

Epson

Epson 17" Monitor	$669

Optiquest

1562A 15" 0.28 1024 x 768	$339
2000DS 15" 0.28 1024 x 768	$359
2000DC 15" 0.27 1280 x 1024	$399
4000DC 17" 0.27 1280 x 1024	$699
4000TC 17" 0.26 1280 x 1024	$829
4500DC 17" 0.28 1600 x 1280	$769
2082DC 20" 0.28 1600 x 1280	$1250

Proton

15" 1280 x 1024	$369
17" w/Built-In Speakers	$649

Others

14" Mono Monitor	$95
14" VGA Mono Monitor	$119
14" Black NI Monitor	$265
15" Black NI Monitor	$395
17" 1024x768 NI .42	$499

Modems

USRobotics The Intelligent Choice in Data Communications **U.S. Robotics**

14.4K Fax Modem INT/EXT	$92/119
28.8 V.34 Fax Modem NT/EXT	$219/255
Courier 28.8 Modem	$389/419

Zoltrix

14.4 Internal Modem, Class I	$51
14.4 External Modem, Class I	$81
14.4 Internal w/Voice	$79
28.8 V.34 Internal Modem	$149
28.8 V.34 External Modem	$169
14.4 PCMCIA	$119

Supra Corporation

14.4i Fax Modem Internal Express	$79
14.4i Fax Modem External	$119

Q Logic

Q Logic Fast SCSI PCMCIA-10	$202

Hard Disk

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CONNER

Seagate

WESTERN DIGITAL

Quantum

FUJITSU

MICROPOLIS

IBM

HEWLETT PACKARD

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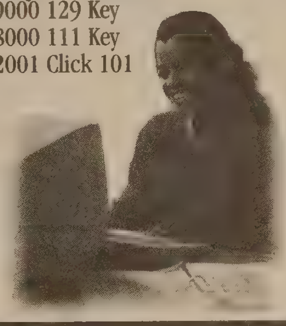
Mouse / Keyboard

Microsoft Bus Mouse (OEM)	$55
Microsoft Bus Mouse	$98
Microsoft Serial Mouse (OEM)	$28
MS Ballpoint Mouse	$38
Mouseman Cordless	$89
Logitech First Mouse	$39
Logitech Mouseman	$55
Logitech Bus Mouse	$65
Logitech Trackball	$74
Logitech Sensa	$65
Logitech Wingman Joystick	$39
3-Button Serial Mouse	$9
101 Enhanced Keyboard	$29
Keytronic 101 Keyboard	$36

Mouse/Keyboard

OMNI 101/102/Ultra	$98
Focus 9000 129 Key	$65
Focus 8000 111 Key	$55
Focus 2001 Click 101	$42



Scanner

Logitech Scanman Color	$429
Scauman Easytouch	$209
Scanman 256	$189

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A Pretty Bad Problem

The following is the foreword to Phil Zimmermann's ***Official PGP*** User's Guide—*ISBN 0-262-47017-6, MIT Press, 1-800-356-0343, mitpress-orders@mit.edu .—and reprinted by permission of the author and MIT Press.*

I love irony, and there lies in this book an irony as striking as any I know. It is this: that a computer program with the cute li'l ol' name of Pretty Good Privacy, written by an apparently unformidable gnome on a tight budget, now terrifies a security monolith which required half a century, uncounted billions of dollars, and the collective IQ's of a few thousand geniuses to develop. This book and the software it describes, as brief and modest as its author, could very well be the root tendril which will grow into the National Security State and shatter it. If that is true, it's probably only a little hyperbolic to claim that you are holding a work as liberating as *Common Sense*, or, viewed through another set of bunker slits, as socially disruptive as *Mein Kampf.*

That doubtless sounds like a pretty disruptive statement itself, but it's not unconsidered. It seems to me that the combination of distributed digital technology and robust encryption has brought informatized society to a very sharp balance point between two lousy choices. On one side lies a technological foundation upon which the most massive totalitarianism could be built. On the other is a jungle in which any number of anarchic guerrillas might hide, upon whom little order could ever be imposed.

Assuming I'm not simply raving here, what leads me to this conclusion? Have things really gotten this weird? I honestly believe they may have. At present most of us unwittingly leave a highly visible and nearly indelible trail in Cyberspace. Every time we make a modern financial transaction, use the telephone, send an email message, we leave a path of bits from which anyone who's interested and properly equipped can assemble the detailed informational ghosts of our naked selves. If you have something you'd rather hide, don't hide it there.

Furthermore, the tools of surveillance are becoming far more sophisticated and conducive to centralization. Massive pattern recognition engines can be applied to the Net from, say, Washington, DC, or Beijing, and specifically tuned to recognize certain kinds of activities. Or even beliefs.

Any government that can automatically generate an intimate profile of every one of its citizens is a government endowed with a potential for absolute power that will eventually, to use Lord Acton's phrase, corrupt absolutely. Few civil liberties are likely to survive such capacities in the hands of the increasingly panicky authoritarians who run the embattled old bureaucracies of the Meat World.

Worse, their panic may be justified. An equally apprehensive and growing lot of cyber-libertarians now have at their disposal tools as unbalancingly powerful in their power to conceal as are the other side's in the service of revelation. One of these sabots goes by the mild name of Pretty Good Privacy.

Any number of citizens armed with PGP and such of its relations as digital cash and anonymous Net remailers can simply vanish from the governmental radar. They are at greater liberty than ever before to conduct any endeavor, including something which, as Phil frankly puts it at the beginning of this book, "shouldn't be illegal, but is." They can exempt themselves from taxes and yet maintain precise accounting records. In many ways, they can effectively resign from the community of the governed and enter a condition in which their actions are ordered by conscience and culture alone.

And we may get a chance to find out just how well these are going to work as the primary templates for social order. There is no question that the patterns of unwritten code which arise from culture can work when the society in question is small, simple, or highly homogeneous.

For example, I come from a part of Wyoming

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where something like the Code of the West is still more important than the law or its instruments. It works pretty well. I don't have a key to my house, and through many years in the cattle business, I signed few contracts and was never knowingly cheated.

Something similar obtains in Japan, a much larger and more complex society which is nevertheless monocultural enough to resist chaos far more by general consent than by any order which police might enforce. And it is nearly crime free.

The emergent social orders of both Japan and Wyoming strongly support the idea that a less legalistic approach to the vicissitudes of life among the humans will work. What is less well known is whether it is possible to return to such a condition and whether truly diverse societies, such as we have in America, can be ordered primarily by cultural norms.

Present evidence from both the Former Soviet Union and the Former Yugoslavia is not so promising. After 70 years of the most heroic efforts to force order by imposed regulation, the great iron lid is off. And it is no Rousseauvian paradise to which the Russians have returned. They appear to be governed less by ethics than by criminals who would probably govern better if they were organized. Meanwhile the Balkans have returned to a state of tribal bloodshed which indicates that a strong sense of community, as expressed in cultural immune response, can be more disruptive than ordering.

But what are the choices? Do we allow matters to continue along their present technological trajectory, eventually endowing our government (and practically any marketing organization) with a magnifying window into the least of our lives? Do we allow ourselves to become intimately vulnerable to faceless bureaucracies to whom we will be incredibly well known yet remain faceless ourselves? We have gone too far that way already. But what can prevent a further tumble toward that dark horizon?

Do we try to hide our trails behind laws (favored by Europeans) which would define what might be the appropriate contents for a database? Do we endow government with the ability to define forbidden knowledge? I don't have much enthusiasm for this solution, which sounds to me rather like having a Peeping Tom install one's window blinds. I do not trust government with the ability to regulate information, especially information which contains within it such a long lever of control as those things about yourself you'd rather no one knew.

There are always special circumstances—grave matters of national security, they will insist—in which it will seem obvious to our guardians that the sanctity of such laws is secondary to the greater public interest. Indeed, this is how we have been doing things in America for a long time. The Bill of Rights continues to apply only when the government feels no pain from its application.

It's a tough choice, but I think I would prefer to give people the means to control their own information. I would prefer to let my fellow citi-

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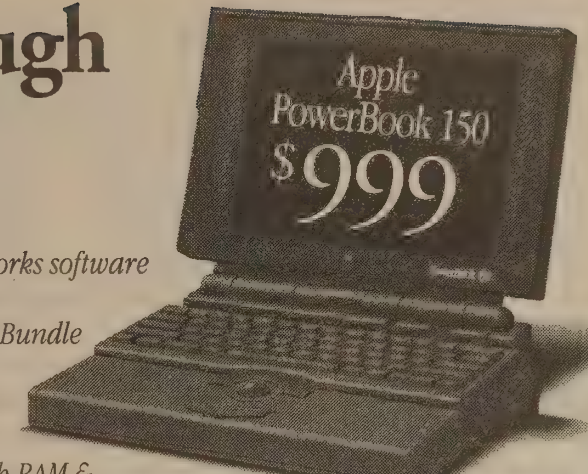

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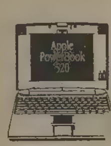

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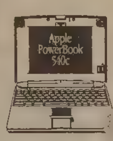

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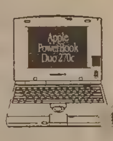

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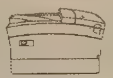

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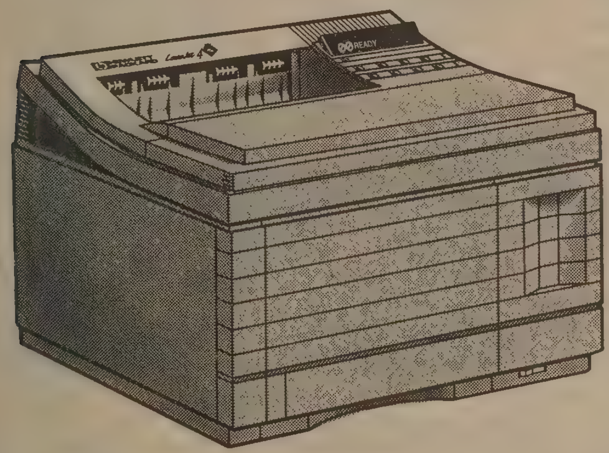

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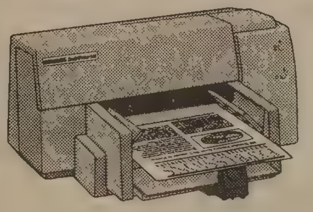

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Pretty Good Privacy *continued...*

zens detach their economic transactions from their identities, despite the looming possibility that an anonymous economy will consider taxes voluntary. I would even rather extend to people the general condition of anonymity, hoping they will not use it much, knowing that without identity, there is little impetus for responsibility, and that without responsibility, the Social Contract is abrogated.

While I have focused so far on the ability of PGP to conceal, it is in the area of identity that this software may make its most positive contribution. Even as digital technology can make us too visible, the absence of real bodies places a garment of ambiguity on everyone who interacts on the Net. If community requires identity, what is to be done about the ease with which the virtual can take on somebody else's identity?

To this dilemma, PGP provides an unambiguous solution: digital signature. Using the signing techniques enabled here, you can send and receive files with great assurance that they were generated by their purported authors and that their contents have not been altered. Once you are in the habit of authenticating your own words, no one may pretend to speak or act as you. You can be assured that you will only have to be responsible for your own actions and not the misdeeds of some phantom wearing your name.

For the rest of what PGP enables, ambivalence is the only appropriate response. Still, I would at least rather everyone know how to use the tools whose operation this book describes, though I fervently hope they will be somewhat circumspect about actually using them. Just as an armed populace may be more resistant to certain excesses of governmental zeal, so might a populace armed with the ultimate defensive weapon, the ability to disappear, countervail against the all-seeing electronic eye.

We had best be armed with something. Because it seems certain to me that any government which can see everything we do all the time will sooner or later feel compelled to add omnipotence to omniscience, which are, in the Virtual Age, much the same thing anyway.

Maybe we will feel compelled to start using them. Maybe there will be anarchy, maybe even chaos. But chaos at least has an open architecture. Chaos has always been the native home of the infinitely possible. And among the possibilities I imagine is that human beings will turn out to be better, less paranoid, less worthy of inspiring paranoia, than many of us think.

In the end, it doesn't matter much what they think or I think. The genie of guerrilla cryptography is out of the bottle. Even Phil Zimmermann, the Ali Baba who rubbed this particular lamp, can't stuff it back in or keep it within what America laughably calls its borders. The genie is all over the Net. It's in your hands as you hold this book. Summon it with a conscience. But be prepared to summon it if you must. ■

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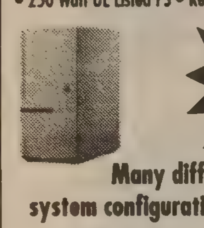

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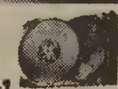

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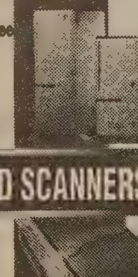

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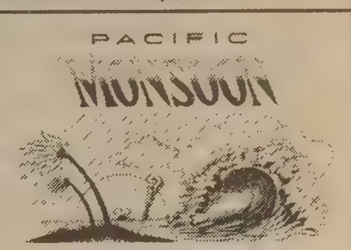

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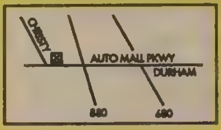

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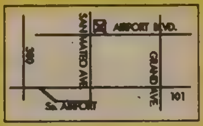

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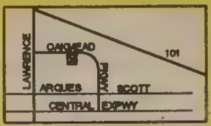

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A Newton With A Keyboard?

Sharp Enters New Territory With Zaurus

Sharp has long dominated the low end of the palmtop market with its well-designed line of "Wizard" organizers and related products. Its latest offering, the Zaurus, is an entirely new product in the tradition of high-quality Sharp organizers.

Although similar in appearance and basic functionality to the Wizard series, it's clear that this organizer is a new design from the ground up. Sharp is calling this a "KPDA" (for "keyboard-enhanced personal digital assistant"), in order to try to position it as a sort of "Newton with a keyboard" (my words, not theirs), capable of competing with other high-end PDAs, including, for example, the Sony Magic Link.

The unit is priced a little below the high end, however; it can be had for $500 without a fax modem and $600 with, and it looks and feels just like any other organizer. It weighs just .85lb. and is quite small, measuring only 6 5/8" x 4" x 1". Opened, it looks a lot like the Sharp OZ-9000 series pen-based Wizards. It's quite clear that the Zaurus is a descendant of the Wizard line rather than, for example, the Newton or Magic Link design.

The Zaurus, however, features an entirely revamped user-interface and newly redesigned applications; it's easier to use, more intuitive, faster, and more powerful than the traditional Wizard line of organizers as well. Like the Wizards, however, it offers an immense battery life; it uses very low power, so it can go for months without needing new batteries. Other PDAs on the market seem to be more akin to tiny laptops; the Zaurus is a featherweight with an extensive battery life.

Like its more power-hungry cousins and unlike the original Wizard organizers, however, the Zaurus sports a standard PCMCIA slot which can take both flash RAM and static RAM cards. In addition, there are drivers for other PCMCIA cards like fax modems and pager cards. Some high-power cards require the use of an additional power source such as an AC adapter, however.

Zaurus Features

Having used the Sharp OZ-9000 series organizers, I have to say that I'm much impressed with the improvements made to the user interface in the Zaurus. The 9000 suffered from many problems, including a very slow processor (making it impossible for the unit to keep up with fast typing) and a quite complex and sometimes confusing user interface. The Zaurus has, for the most part, greatly reduced these problems—it's quite zippy and has no problem keeping up with my typing. The graphical user interface is reminiscent of Windows or the Mac; it is quite intuitive and aesthetically pleasing. Of course, the keyboard is rather small (though, like the other Wizards, about as well laid-out as you can imagine given the size constraints of the machine), and thus one cannot really type all that rapidly. However, unlike my experience with the 9000, I was unable to outtype the Zaurus.

The applications include the usual calculator, world clock, calendar, scheduler, address book, and memo pad. These applications are much more functional than the typical organizer, however. In addition to the usual functions, the Zaurus contains a more general-purpose database, complete with cross-references and the ability to store graphics and drawings, a "scrap book" which can be used to create simple drawings, an outliner, and a number of other functions as well.

The memo pad is really more like a small word processor; it includes italics, underline, boldface, margins, headers and footers, alignment, and many other features that aren't found in most organizer memo pads. It doesn't seem to support multiple fonts, but it does have a built-in spell checker. It even allows embedded graphics, and you can fax a document via the optional fax modem. While not really up to the standard of a full-blown word processor, this unit provides enough flexibility and power for many short documents. Because of the fax capability (and the ability to include in-line graphics) the machine is ideal for use as a portable fax, capable of sending documents to any fax machine, anywhere.

The calculator is rather plain, but it can pop up over any application, allowing you to do a quick computation, then return to whatever it is you were doing quickly and easily. In addition to the normal calculator functions, it doubles as a date calculator. Unfortunately, the computational functions in the Zaurus are somewhat limited; there is no built-in spreadsheet, for example.

Calendar functions in the Zaurus are particularly well designed and powerful. Not only are appointments displayed in an unusually useful and clear format, setting an appointment is very easy; just graphically select the time on a time bar for the duration of the appointment and start typing. This is faster than the usual calendar function on most organizers or PDAs, since you don't have to type in the time of the appointment, you just select it. The application has day, week, and month views, all of which are well laid-out and allow you to see a lot of

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Palmtops *continued...*

information at a glance.

The address book is actually more of a flat-file database. It allows you to customize the names of the fields; for example, if you want to keep track of, say, restaurants, you can have a field for the type of cuisine and search and sort the database for all Indian restaurants. You can even store drawings within databases. A powerful linking feature is provided, allowing you to quickly link database entries to information in other applications; for example, you can store links to all of the memos and appointments associated with a particular person, and look them up directly from the person's address book entry. You can even specify one of the fields as a "Fax #" field, which allows the Zaurus to use the address book entry to autodial the person's fax number. Unfortunately you're only allowed to create up to six different databases (three under the "contacts" menu and three under the "data files" menu).

Although like Magic Cap-based PDAs, the Zaurus does not do handwriting recognition, like them it does allow you to take quick handwritten notes during meetings and store them as graphical objects for later perusal. In some cases it is more natural to take quick handwritten notes than to try to type into the little organizer keyboard (which is awkward and can be slow until you get used to it).

Personally, I find the idea of taking handwritten notes somewhat disturbing, since the end result is rather messy and hard-to-read, and what's more cannot be easily edited or pasted into other documents as text. However, it's true that when I'm speaking with someone on the phone, I find it easier to scribble down handwritten notes than type into my organizer.

The "scrapbook" function is really a very tiny drawing application. Although the notes function also allows you to draw, the scrapbook has a number of other simple painting tools like an "icon" tool that lets you quickly drop in various tiny images (for example, a little hospital icon, or a factory icon). The application includes cut and paste, a couple of different line tools, and so forth. It's not really very powerful, but it could be useful for sketching quick diagrams and maps.

However, the size is limited to a single graphical page (you can store multiple pages, but they're all separate), unlike the notes function which allows you to scroll over a large document. It might actually be more useful to use the notes function for drawing despite the lack of drawing tools in order to take advantage of the ability to scroll vertically over a larger document.

For $100 more you get a fax modem with the Zaurus. It's a very low-power 2400bps data/9600bps fax unit that attaches to the left side of the machine and does not take up the PCMCIA slot. Not only does the modem support fax sending, there's a nice terminal program built in, allowing you to use it with text-mode online services. The terminal program supports VT100 emulation. Unfortunately the display is only wide enough to accomodate 53 characters across, not enough to display a full screen of text all at once.

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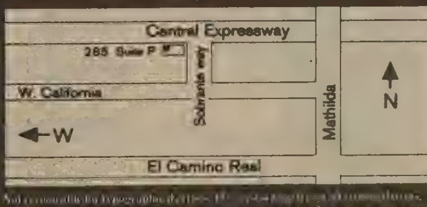

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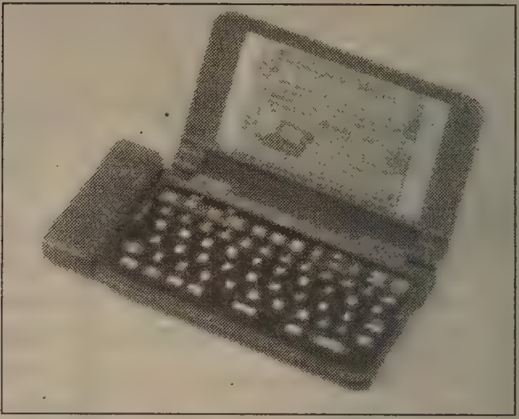
Palmtops *continued...*

include a PC data transfer cable, and like the OZ-9000 series the Zaurus also comes equipped with an infrared communications port, allowing you to transfer data from one Zaurus to another wirelessly. This port could presumably be used to link the Zaurus with a desktop PC as well.

You can use the touch screen on the Zaurus either with the supplied stylus (easily retrieved from a slot at the front of the unit) or with your finger (or any other object). I found it much easier to use with the stylus. The display itself is a readable 320 x 200 LCD screen; much clearer than the Sony Magic Link or the Motorola Envoy screen. It's not the clearest organizer display I've ever seen, but it's very usable in a variety of conditions.



Upsides And Downsides

Overall I find the Sharp Zaurus to be a well-designed and worthy successor to the Sharp Wizard line of organizers; I find it a considerable improvement over the OZ-9000 series machines. It is powerful enough and easy enough to use that it seriously competes with some higher-end PDAs. In fact, if your primary use for a PDA is its organizer functions (address book, scheduler, and so forth), the Zaurus is both more convenient (smaller, lighter), and has a much longer battery life (a couple of months versus a couple of days).

On the downside, however, the Zaurus seems very limited in terms of its computational capabilities; the pop-up calculator is as sophisticated as it gets. There is no built-in spreadsheet, nor is there even a personal finance program like Pocket Quicken; as of this writing there is no such functionality available. Thus, for those people who are interested in doing their finances or keeping track of their checkbooks on their PDA, at present the Zaurus is not the machine of choice.

As I've mentioned in earlier columns, I find the powerful spreadsheet functions of my organizer to be invaluable; I use them for everything from trip planning to keeping track of my checkbook to doing routine financial projections. It's a shame the Zaurus at present has no such capability, though presumably this might be added at a future date. The Zaurus does support add-on software, so it's quite possible that some third-party vendor will supply this functionality in the future.

In addition, the Zaurus has no sophisticated connectivity software such as support for Telescript built in; the unit is limited to text-mode online services or the special Zaurus Mail application which does not come bundled with the unit. It's possible such functionality will be added later, but it will be an extra-cost option.

Other News: Neural Network Touch Pad

Dr. Carver Mead is a legendary figure in the annals of computer hardware design, as he invented VLSI (Very Large Scale Integration) technology, which forms the basis of almost all computer technology today. A professor at Caltech, in

continued on page 334

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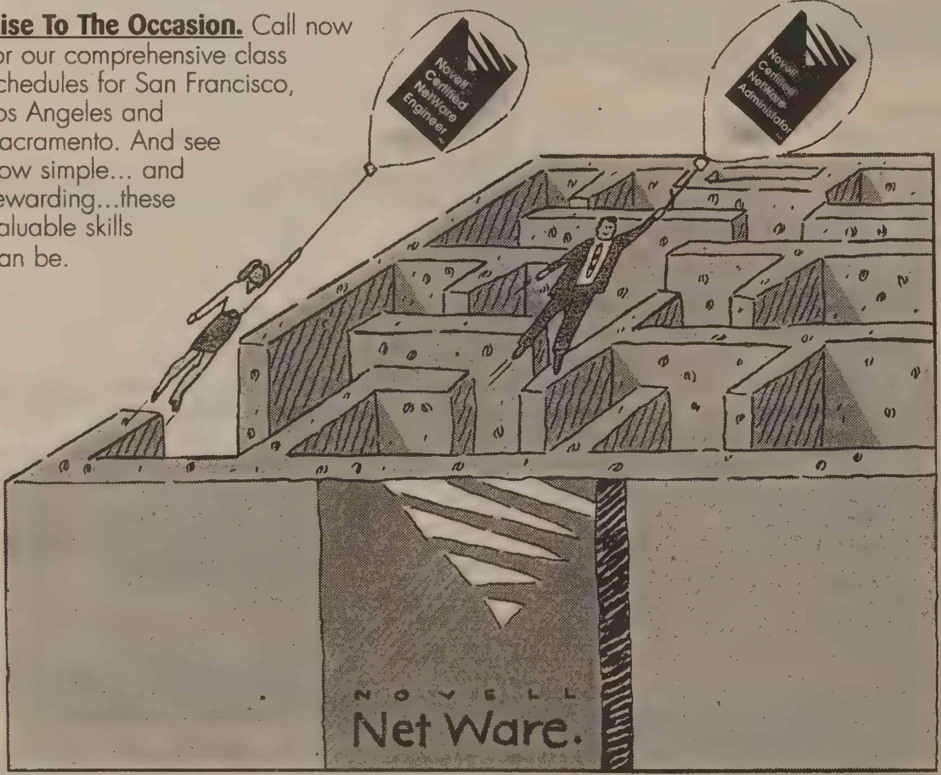
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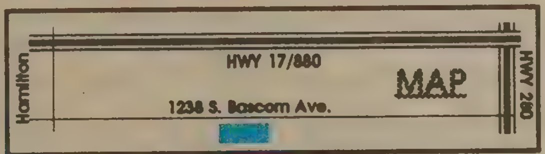

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LAPTOPS • BY ED KAHN

Zenith's Z-Player Portable CD-ROM

Plug-And-Play Offers Many Advantages—Once It Becomes A Reality

Oh, the woes of not having plug-and-play! This month, it was my intention to review Zenith's nifty portable CD-ROM multimedia player. At first glance, it looked to be quite a handy gadget. It is relatively compact, measuring 7.5" x 10.5" x 1.25" and weighing about 2lbs. Although there is a power supply, it can be run from rechargeable NiCd batteries. In a pinch, six AA batteries will power the Z-Player for about a half hour.

In theory, the Z-Player is simple to connect via a PCMCIA Type II card. Unfortunately, my experience was one of total frustration. I first attempted to use it with my desktop computer, which is equipped with a PCMCIA slot. I ran into trouble and learned that I would have to upgrade my PCMCIA software—which was available to download from a BBS. Next, even though I followed the instructions I continued to have problems. Eventually, I realized that I was out of my league and decided to call tech support at Zenith. But even though I searched every page of the documentation, there was no phone number for technical support. I called the public relations department that had sent me the machine and asked them what to do. They provided me with the 800 number for technical support. Now, I innocently believed, my troubles would be over.

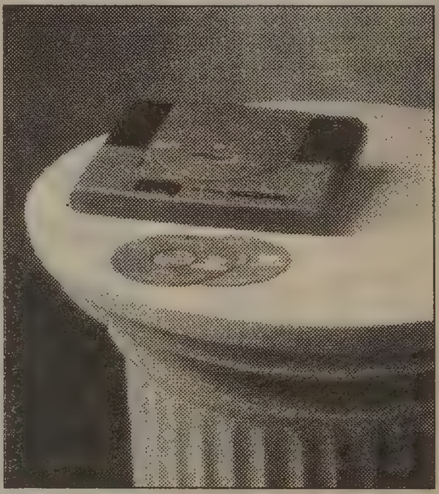
Technical support is knowledgeable and courteous. They spent hours with me, but to no avail. We simply could not make the Z-Player work. I was finally able to get my desktop system to recognize the CD-ROM drive, but was still unable to get any sound for it. Eventually, I decided that I should restore my system to its previous personality and move on to a new portable computer that would surely work fine.

I connected the player to Digital's new HiNote Ultra—a delightful machine which I spotlight in this month's Computer of the Month. Once again, I did my best to use the Z-Player but had to renew my contact with Zenith's technical support people. After another hour on the phone we were still unable to get it to work. Finally, the technician asked me if I could fax him my config.sys, autoexec.bat, win.ini, and system.ini files. He promised to analyze the files and find the problem. Later in the day, he phoned me with several suggestions. But, still no sound from the Z-Player. We tried everything and could not make the system work as it should.

As a last resort, I mentioned that I did have an actual Zenith portable that should be compatible and that I felt confident this would work. The technician was due to go home at the end of his day and I assured him that I would have no more trouble. After all, I had become very familiar with the installation routine and also had the large booklet from Zenith on how to install the Z-Player into different systems.

I unpacked the Zenith NoteFlex notebook and with a sense of confidence connected all of the parts together. But without success. Once again, I phoned Zenith's technical support. Their number was easy to reach—all I needed to do was push the redial button on my phone. This third technician detected a note of irritation in my voice so I put him at ease by summarizing my problems and letting him know that none of this was his fault. He suggested a few changes to my system's configuration and we tried to get the player fired up. No luck. Eventually it was discovered that when Zenith sent me the computer, they neglected to make sure that all of the software was in the condition it was supposed to be when leaving the factory. The last reviewer, it seems, had deleted a lot of the software from the hard drive. Only some of the necessary software could be retreived from Zenith's BBS, while the rest of the files would simply not be available in time for me to meet my deadline.

In desperation, I decided to write this account of my trials and tribulations. In spite of this experience, I have a good deal of confidence in both the player and the technical support people at Zenith. The listed capabilities of the Z-Player are great. It can double as an audio CD player. I was able to check this out and can report favorably on it. Volume was a bit low, but there are plugs to connect to an external amplifier. The system is designed to also let you record onto your hard disk and even to mix sounds from other sources through a line-in port. Despite my troubles with the player, I feel that it fills a niche that has a market.



The player itself seems to work well, I do not really blame Zenith for the interface problems I had. While they should not have sent me a machine that was not up to factory specs, the player probably does work with newer computers. If you decide to check out this product, be sure that your dealer can get it up and running on your computer before you buy it. Plug-and-play offers real advantages and I, for one, can't wait until it becomes a reality. Until then, it is hard to blame the manufacturer who must seek to achieve compatibility with literally hundreds of different systems. I suspect that Zenith has done a good job, for the most part.

RESOURCES:

Z-Player, $499
Zenith Data Systems
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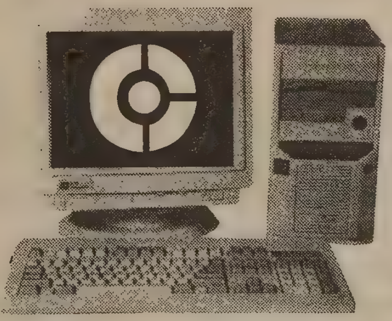

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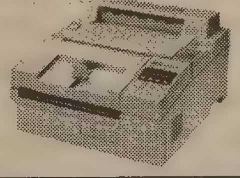

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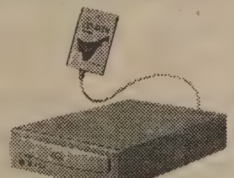

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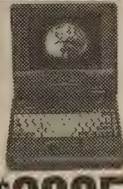

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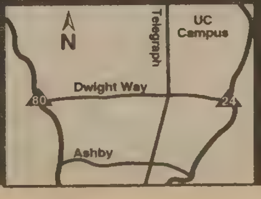


Computer Of The Month:

Digital's HiNote Ultra

It's been a long time since Digital Equipment Corp. (DEC) had a product in a column on laptops and portables. But DEC has finally taken the plunge, with a stated goal of becoming one of the top five suppliers of notebook computers by the end of 1995. Previously, they bought someone else's computer and stuck their logo on it. DEC did this until it could develop a machine that was better than what could be bought elsewhere.

The Digital HiNote Ultra marks the release of a true DEC notebook. And it is a winner—it offers features I have not seen on any other notebook and it works like a charm.

The most striking design element is its light weight and small size, coupled with a rich array of powerful features. The basic system measures 8.5" x 11", weighs right around 4lbs., and is slightly more than an inch thick. They accomplish this by leaving out a floppy drive. But, in fact, DEC does provide a floppy drive that can be easily attached. The design is unique. The floppy drive is housed in a wedge that fits under the back of the machine and provides a tilt to the unit to make typing more comfortable.

A number of different configurations are offered, with the most powerful system running a 75MHz DX4 chip. It comes standard with 8MB of RAM, expandable up to 24MB (additional memory costs $300/4MB). Hard drive sizes go up to 340MB.

The top-of-the-line display is a 9.5" active-matrix panel. Colors, as you might expect, are brilliant. If you want to connect to an external monitor, it is easily done through the port on the back. You can then set your notebook to power up recognizing the external monitor, internal LCD, or both. In the top-of-the-line system, there is 1MB of video memory.

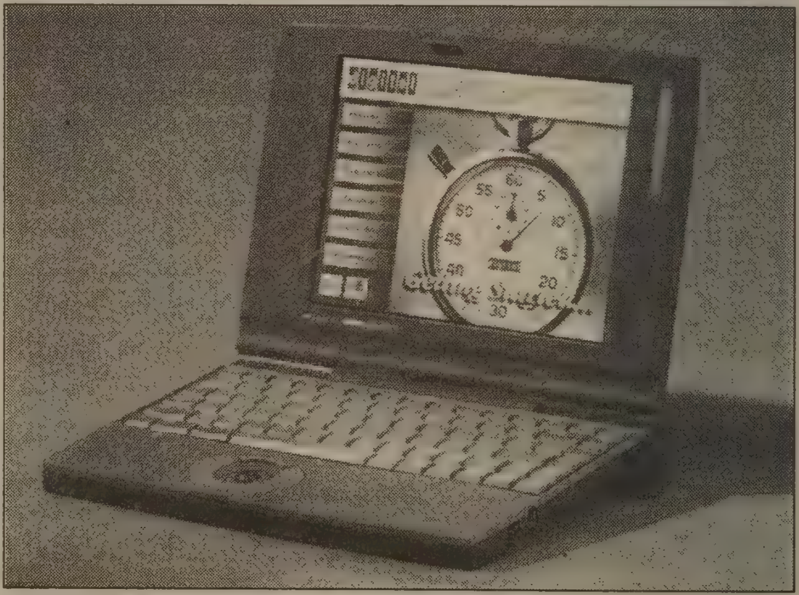
The keyboard is full size, has a good feel to it, and is definitely better than what is found on similar-sized notebooks. Nonetheless, portables will rarely have a keyboard as good as an old-fashioned, $50 external keyboard. If you do decide to use another keyboard, simply connect it through the keyboard port on the back of the HiNote Ultra. There is also a conveniently placed trackball just below the built-in keyboard.

Digital has added a few unique features. In addition to the serial and parallel ports, there is an infrared port that will allow you to connect with other equipment similarly outfitted. This is becoming an increasingly popular feature of small portables and can be very useful.

The battery setup is also highly advanced. This is the first portable I have used that has a lithium-ion battery pack. It is a little smaller than many of the older type battery packs and lasts quite a bit longer. Under the worst conditions, it should power the computer for about three hours. With maximum optimization, it should last for up to six hours. The battery folds down to give you the tilt that the floppy drive wedge provides even if you travel without the floppy attached.

And finally, there are two Type II PCMCIA slots which can also be used as a single Type III slot. If you need more slots, DEC makes an expansion dock ($299) that has four PCMCIA slots as well as the floppy drive. This unit is used instead of the standard floppy wedge and looks just the same.

An audio system is Sound Blaster compatible. There are microphone and speaker ports. The HiNote Ultra notebook comes ready to go with Windows for Workgroups, MS-DOS, and Lotus Organizer installed. A nylon carrying case comes with the computer. DEC provides a three-year warranty. During the first year, pick-up and delivery included if service is needed. You can extend this coverage for the full three years for an extra $49. All in all, the DEC HiNote Ultra is a terrific computer. It's good to see DEC back on the field.



While the top-of-the-line unit carries a hefty price tag, the least expensive models sell for less than $2000. This notebook is definitely worth checking out. ■

RESOURCES:

HiNote Ultra, $4999 and less
Digital Equipment Corp.
Maynard, MA 01754-2571
1-800-722-9332

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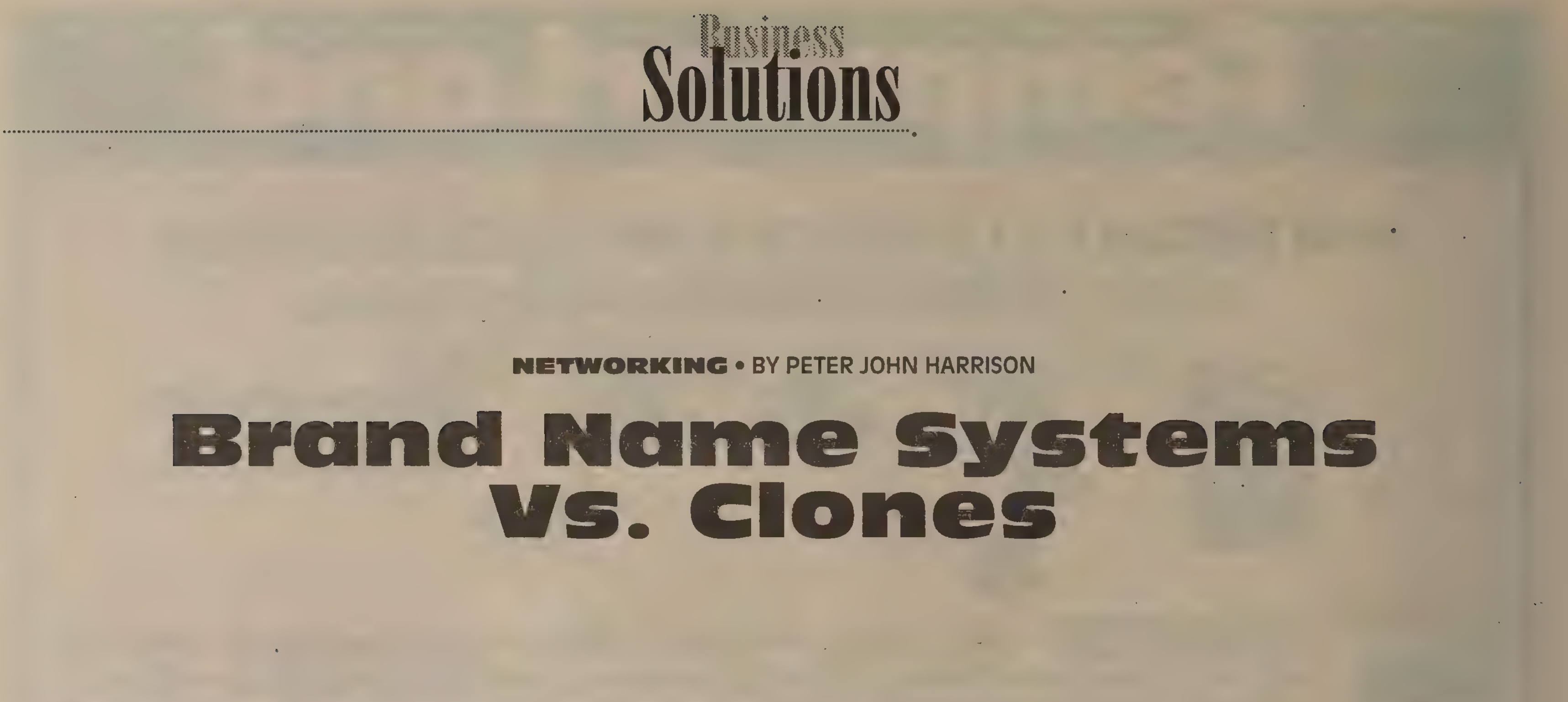


NETWORKING • BY PETER JOHN HARRISON

Brand Name Systems Vs. Clones

When it comes to buying computers for the LAN, there are two schools of thought. The first recommends buying name brand systems from makers like IBM, Compaq, or Dell; the second touts clone systems, which typically cost a third less than similar name brand systems. Each approach has its pros and cons, so let's talk about why you might want to select one approach over the other for your computer purchases.

Name Brands

Name brand systems first. You see them discussed and pictured everywhere in the print media. The May issue of *Byte* magazine has a picture of one name brand system on the front cover, and an ad for another name brand offering on the back, but what do these systems offer the network administrator and LAN users besides a lot of hype?

There are three major advantages to buying name brand systems. The most important (at least to my way of thinking) is a nationwide commitment to providing on-site service.

Network administrators usually have enough work to keep them busy without constantly having to troubleshoot and repair a troublesome computer system. This is particularly true for administrators who support LANs at multiple locations, and can't exactly drop everything to fix a system in Atlanta. Many name brand systems come with an on-site one-day turnaround maintenance agreement that can help free up hours of a network administrator's time, and make it practical to handle several LANs from a central location.

Buying a name brand system can also offer some advantages in how you pay for the system. Leasing versus buying a computer system offers added flexibility when it comes time to pay taxes, because the IRS lets you treat the annual cost of leasing the system as an expense, so you can write it all off instead of having to depreciate the cost of the system out over several years.

Another advantage is that you can get your systems delivered, network ready and loaded with your selected applications, directly to the location where you want to set them up, and that can save hours of valuable time.

Clones

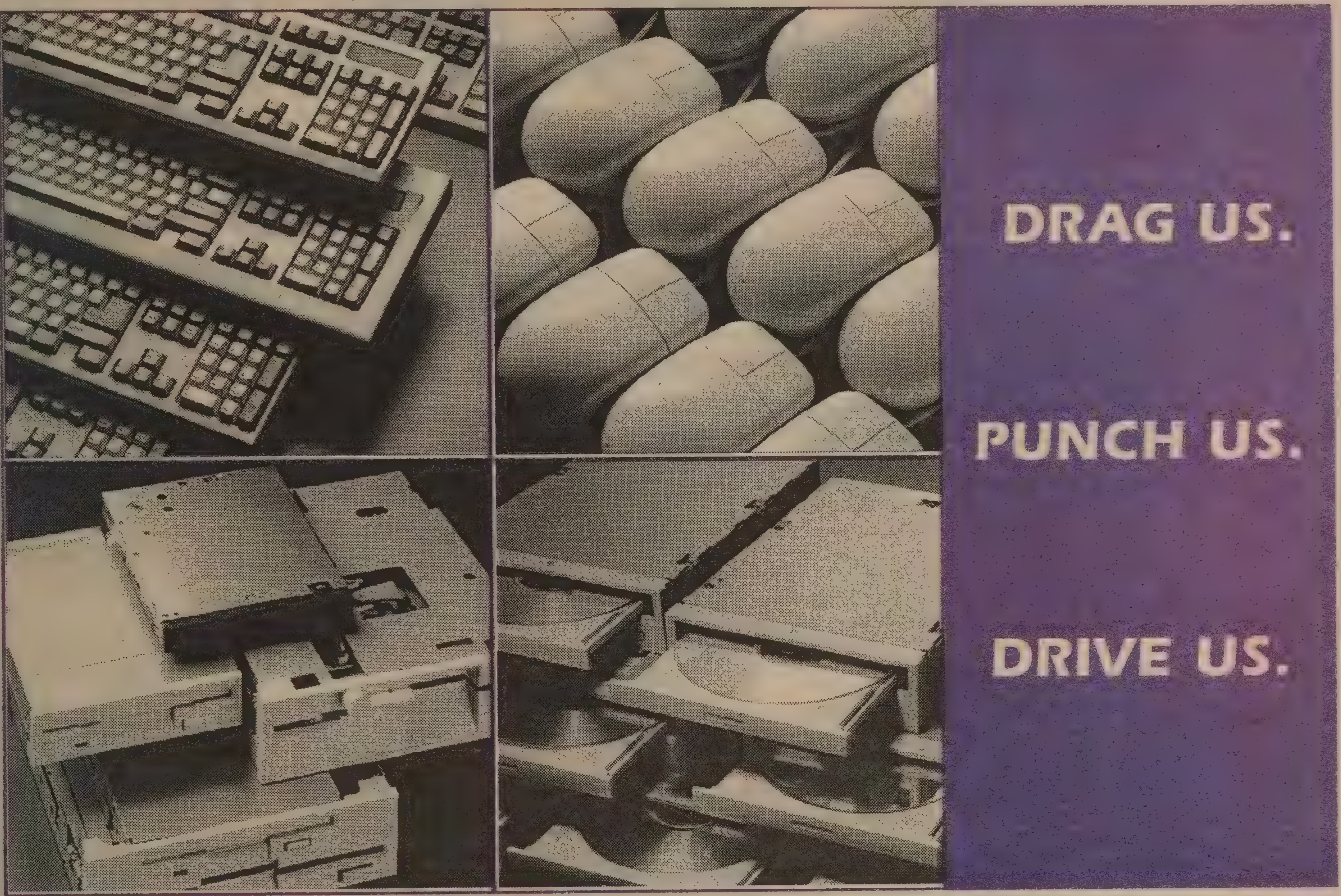
Clone systems have their advantages, too, and not just the obvious price difference. The primary reason I like clones isn't the difference in system prices at all. It's that they're almost always constructed from off-the-shelf components.

> The primary reason **I like** clones isn't the difference in **system prices** at all. It's that they're **almost always** constructed from off-the-shelf **components.**

Brand name systems are frequently made with custom-designed, integrated components. It's not at all unusual, for example, for a name brand system to have the CPU, disk controllers, even the parallel, serial, and mouse ports and connectors built right into the motherboard, which changes the dimensions and mounting requirements of the motherboard and case. That means that if your system fails after the warranty expires, you'll probably have to pay top dollar to have a new brand-name custom motherboard installed. It also means that you can't leverage last year's investment in the case and integrated components by simply yanking out an aging motherboard with a slower CPU and replacing it with a faster modern one, or pull out the video controller and plug in a card that works with more colors or at higher resolutions.

My first IBM-style clone is a good example of how buying clones can work to your advantage. When I purchased it back in 1985, it was an 8MHz IBM-XT clone. Since then I've swapped the motherboard out four times, changed disk controllers, and swapped video cards to meet my changing needs. Now that I'm changing motherboards for a fifth time (from a 486SLC-2/66 to a 486DX-2/80), I'll finally have to replace the original decade-old power supply and case, because no one makes motherboards with the old IBM-XT mounting holes anymore. I'll still save a lot of money, though, because last year's $600 investment in 16MB of memory (still the

continued on page 69



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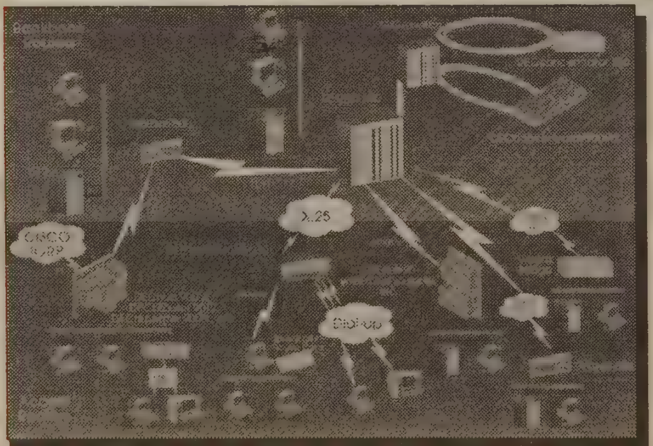

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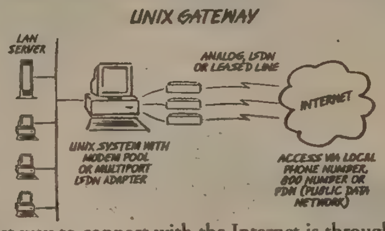
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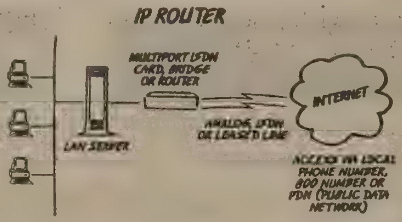
At home, the easiest way to connect with the Internet is through an on-line service such as CompuServe, Delphi or Prodigy. All you need is a PC, a modem, and communications software such as Carbon Copy or ProComm. The Internet provider takes care of everything else for a monthly fee plus a per-minute usage charge.

Another option is to use a service such as PSI's InterRamp which provides you with an actual IP address on the Internet. For this option, you need to run an IP protocol stack on your PC along with some type of Internet access package. There are packages available today that offer both TCP/IP and Internet access in a single package. Or, if you are technically adept, free "shareware" can be downloaded from the Internet.

LAN InterNet Access

Many companies today are choosing to provide all network members with Internet access. Following are two options for linking LANs to the Internet.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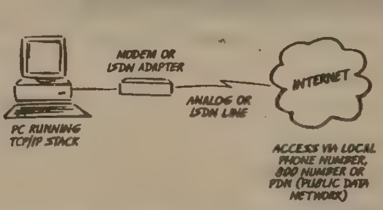
ACCESS VIA LOCAL PHONE NUMBER, 800 NUMBER OR PDN (PUBLIC DATA NETWORK)

One of the easiest solutions is to set up a Unix host as a gateway for PC or terminal users to the Internet. For example, SCO's Global Access product integrates TCP/IP networking services, a graphical user interface, graphical e-mail, security and the SCO Unix operating system into a single package. Non-Unix Computers will need to run an X-terminals emulation package to access the Unix gateway. A modem pool Multiport ISDN adapter, or other communications device, is also needed.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MODEM OR ISDN ADAPTER
INTERNET
ANALOG OR ISDN LINE
PC RUNNING TCP/IP STACK
ACCESS VIA LOCAL PHONE NUMBER, 800 NUMBER OR PDN (PUBLIC DATA NETWORK)

For companies that don't want a dedicated Unix gateway, the LAN server or a router on the LAN can provide network members with Internet access. An IP protocol stack must be running on the server along with Windows, DOS or Macintosh client software. The server needs to be equipped with an adequate number of communications devices (such as a modem pool or Multiport ISDN LAN adapter) and it requires either a direct connection such as a leased line, or a switched connection such as an analog or ISDN phone line, to an Internet provider.

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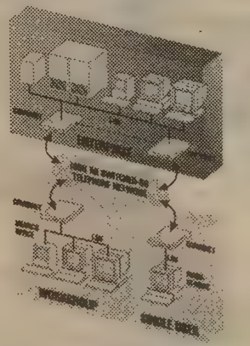
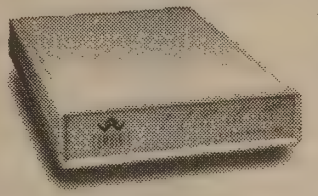


The EVERYWHERE 200 or 400 is compatible with any computer with an Ethernet interface, and allows remote access to all applications and data resident on an enterprise network.



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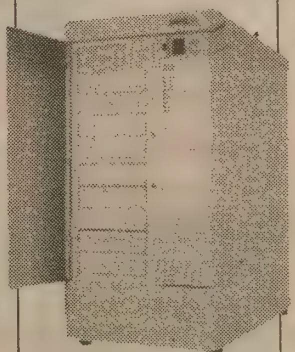

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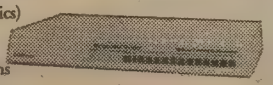

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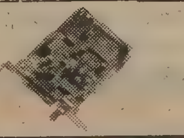

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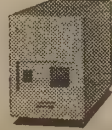

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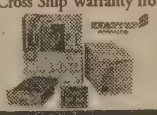

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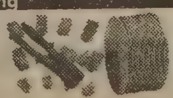

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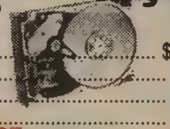

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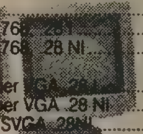

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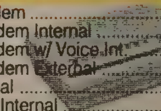

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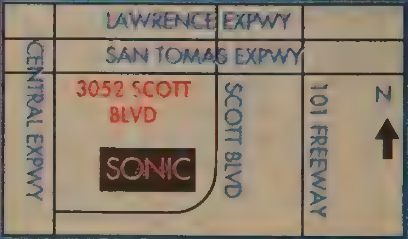

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Networking

continued from page 64...

going price), as well as my investments in the video card and other components will work just fine in the new system. If I had purchased a brand name system, I wouldn't have had as much flexibility to update just those components that no longer met my needs.

Buying clones can also help when it comes to maintenance and repair. Because clone systems cost less, you can afford to buy an extra system or two to use as a "swapper" that you can just drop into place when one of your user systems fails. That way you don't spend hours trying to disassemble and repair a computer all over your user's desk or wait a day or two for the manufacturer repair guy to show up.

You also get somewhat better control over the configuration of the systems you buy. You can, for example, standardize on a specific LAN card or video controller, so that your networking stacks and Windows configurations are identical. That's not always the case with brand name system providers, which may not offer preconfigured systems with your chosen LAN card and often "update" their systems to include the latest and greatest revision of their VGA video controller.

Reliability Not A Problem

Two things I have not found to be an issue when selecting brand name or clone systems is dependability and compatibility. I've managed LANs made up exclusively of clone systems and I've managed LANs where brand name systems were standard, and I've noticed that unless a clone is configured with really cheap components, the failure rate is about the same.

In particular I avoid buying clones with "no name" video cards, which have been the source of most of my grief when it has come to hardware compatibility with the software, and I tend to stick with systems using a chip set and BIOS from a company I respect.

So both clones and brand name systems have advantages; choosing one systems acquisition approach has more to do with how you plan to manage your LAN than with how much you plan to spend, but it's a decision you should make carefully. After all, the cost of buying and maintaining one computer system isn't too bad, but a fleet of fifty systems will easily top a hundred thousand dollars in costs. It pays to work out a strategy that fits your company's needs. ■

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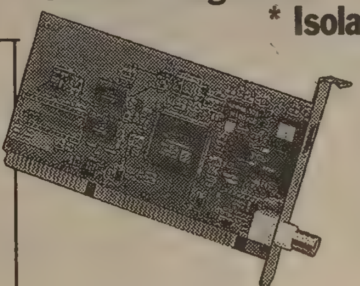

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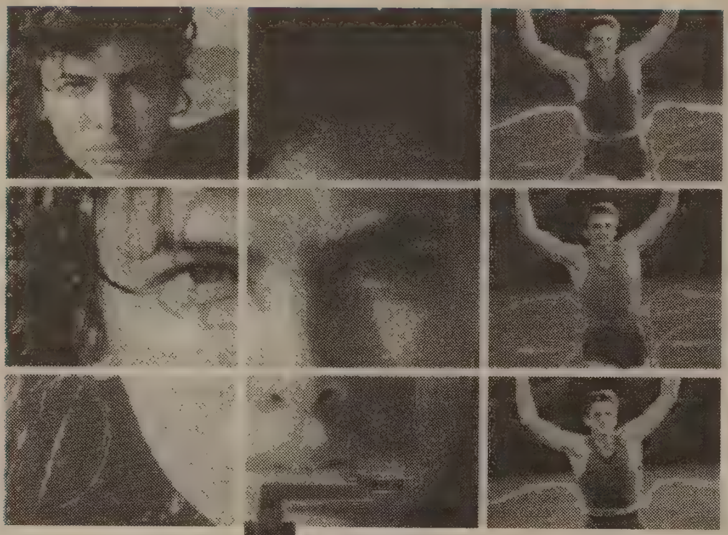

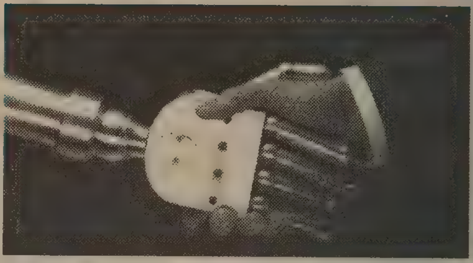

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Making Yourself A Telecommuter

Equipment, Types Of Work, And Necessary Steps To Become A Telecommuter

With millions of employees now telecommuting to work, no one should be surprised that thousands of large and small companies are taking advantage of this new work pattern.

But based on the mail I'm getting from readers, there's a fairly common misperception out there: that companies are hiring "skilled telecommuters" off the street to do work that's presently done by employees working in the company's offices. In my experience, such opportunities are few and far between. Employers are far more likely to convert their existing employees into telecommuters than to seek new employees to work outside the office.

My advice to people wishing to become telecommuters, therefore, is not to try to find a new job with a company that supports telecommuting, but to keep the job you're already doing well, or if you're presently unemployed to find a new—perhaps non-telecommuting—job you can do well. Only after you've established your reliability and effectiveness does it make sense to try convincing your employer to let you do your job as a telecommuter.

What About Equipment?

Except for a telephone, telecommuting has relatively little to do with equipment or technology. Many people confuse telecommuting with "telecomputing," or otherwise assume that telecommuters require extensive electronic gear to get anything accomplished. But depending on the kind of work to be done via telecommuting, requirements for equipment range from extensive to very minimal.

At a minimum, a telecommuter needs only a telephone, and perhaps paper and a pencil. For people who are conceptualizing a plan, reading, thinking, or writing, very little extra equipment is necessary—although a calculator or a fax machine might be helpful.

Telecommuters with certain other kinds of responsibilities and assignments, however, often require specialized equipment to be effective and productive.

> Just **dreaming** about telecommuting **is not enough.** Take a few minutes and **carefully consider** what impact it may or may not have on **your life.**

Of course, if you can justify the costs of additional equipment, there's no harm in having such items as:

An Extra Telephone Line: Teleworkers who spend a great deal of time on the telephone, or who need to differentiate business-related calls from personal calls can often benefit by installing a second telephone line. Sometimes, it's enough just to add the special services that allow one line to be used for two or more calls.

A Cellular Phone: An important piece of equipment for telecommuters who spend a good deal of time moving from one location to another, or who don't want to (or can't) easily install another telephone line in their telecommuting workplace.

A Facsimile Machine: A fax can help telecommuters who work with drawings, diagrams, charts, or other visual material. Sometimes faxing a memo is actually better than holding a meeting or making a telephone call, because a typewritten page can convey detail far more accurately than spoken words. Sending a fax is also faster than a messenger or express delivery, and far cheaper.

Voice Mail: Like an automated answering machine/secretary, electronic voice mail is a valuable capability for telecommuters who need to leave and/or receive relatively complex or detailed messages.

A Computer: Only a small proportion of telecommuters absolutely require a computer at their home or remote workplace. But a much larger proportion will benefit from having one available. If a computer would help you be more productive at the office, it would generally help you be more productive as a telecommuter.

A Modem: This device allows for computer communications over ordinary dial-up telephone lines.

A Computer Printer: When a telecommuter is writing long reports, analyzing data already contained in computer files, developing graphics, or building up electronic spreadsheets, printing can easily be delayed a day or two until the telecommuter can bring his or her information back to the office. But when the telecommuter is writing letters and other correspondence, or doing graphics, having a good, quality printer at hand may provide a major productivity improvement.

What Kinds Of Work Are Good For Telecommuting?

Not all work is easily adaptable to telecommuting, which is most effective for work that can be done alone, in any location.

Don't be put off by job titles. Almost every position today involves some tasks that are appropriate for telecommuting. If you can organize your job to collect the telecommuting-appropriate tasks to occupy one or more days per week, it can make sense to telecommute on those days.

Here's a quick rundown of some tasks you can do while telecommuting:

Mental tasks suitable for telecommuting—Analyzing, Auditing, Comparing or Contrasting, Creating, Modifying, Planning, Problem Solving, Thinking, and Visualizing.

Manual tasks suitable for telecommuting—Computer work, Contract preparation or analysis, Correspondence, Designing, Filling in or processing forms, Meeting via telephone or other medium, Numerical or financial calculations, Project analysis or management, Reading or studying, Record keeping, Researching or fact checking, Sales or contact, Telephone answering or customer service, and Writing or typing.

How Can I Start Telecommuting?

If these kinds of tasks make up at least 10% of your job responsibilities, you can probably keep busy as a telecommuter one day or more every two weeks. But you'll need permission and support from your supervisor, and probably others in your organization. Here are five steps you can take to explore the possibilities in your present place of employment and then get yourself started telecommuting:

1) Determine whether or not you want to telecommute

Just dreaming about telecommuting is not enough. Take a few minutes and carefully consider what impact it may or may not have on your life.

Try to anticipate how the switch to telecommuting will impact:

- Your ability to accomplish your assignments.
- Your relationships and acceptance in the work group.
- Your career opportunities.
- Your financial situation.
- Your job satisfaction.

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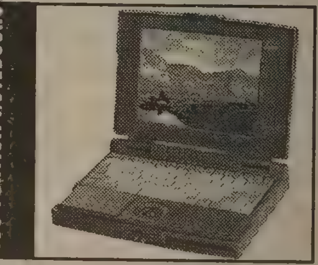

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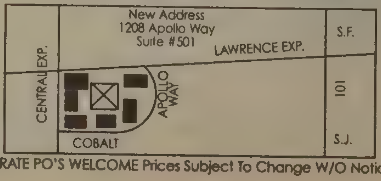

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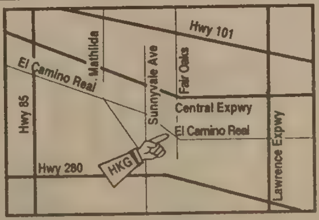

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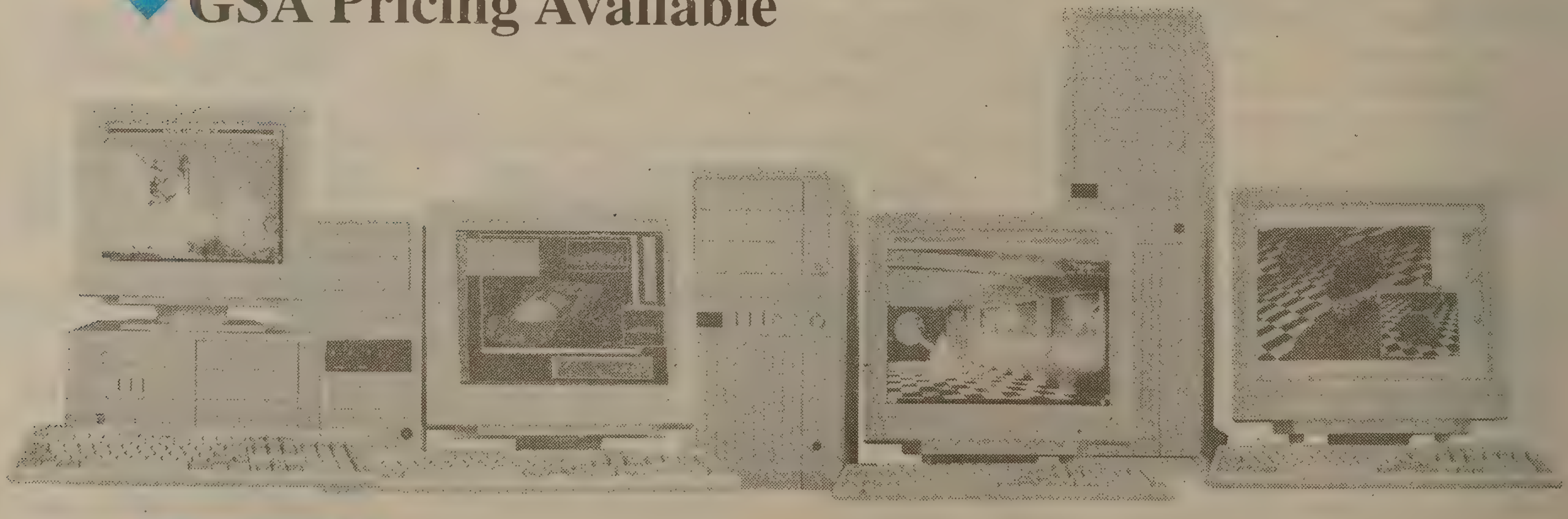

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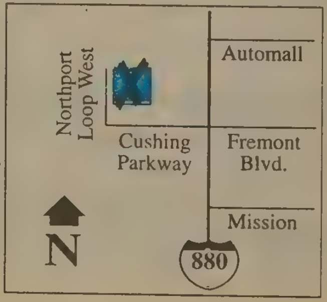
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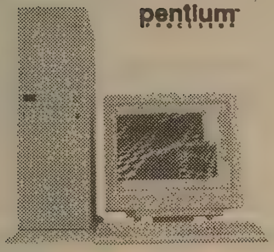

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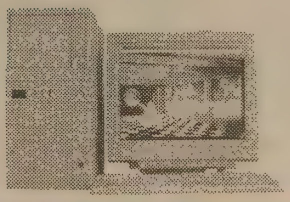

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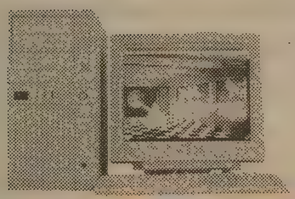

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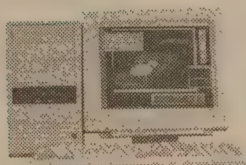

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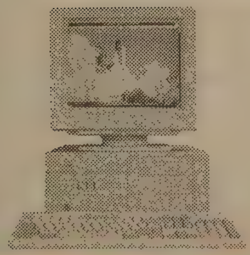

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Only if you feel certain that telecommuting will bring you a net benefit should you go ahead with the remaining steps.

2) Develop a plan for telecommuting

Come up with concrete answers to the following questions your immediate supervisor and higher-level managers are likely to consider:

Why will you telecommute? What advantages will this working style offer you? Your company? Your coworkers?

Where will you work when telecommuting? Is there sufficient space in that location? What about special services and facilities you need to do your job? How will you prevent unwanted interruptions?

When will you telecommute? How frequently? Which day or days of the week? What hours will you work as a telecommuter? How soon will you start? Do you envision an end to telecommuting, or will you want to continue indefinitely?

Many **people confuse** telecommuting with "telecomputing," **or otherwise assume** that telecommuters require extensive electronic gear to **get anything accomplished.**

How will you telecommute? What materials and resources will you have at your off-site workplace? What communications technology and other equipment will you require? How frequently will you "check in" with people in the office? How will people contact you when you're needed? How will you attend meetings held at the office while you're telecommuting? If you can't or won't attend, how will you compensate for these absences?

3) Broach the subject

Once you've got these questions answered, start talking to your immediate supervisor about telecommuting. Try to convince him or her that telecommuting is a proven, practical approach to working. Remember to:

Sell the company on the benefits of telecommuting. Your immediate supervisor and higher-level managers may be willing to let you telecommute just because you want to. But if you're not irreplaceable, they'll want

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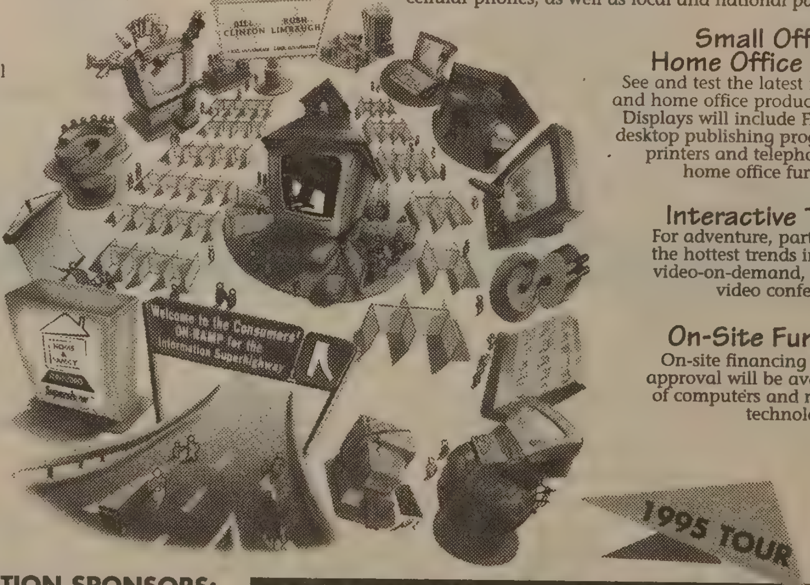
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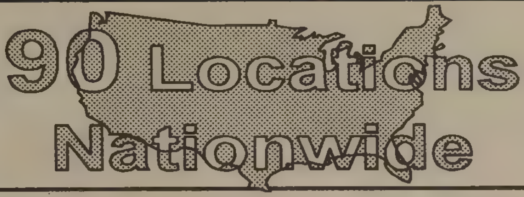

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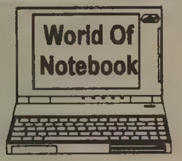

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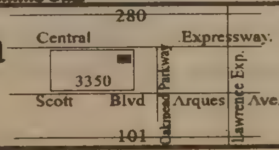

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Telecommuting *continued...*

to know what's in it for the company, and for them. So have a shopping list of benefits in mind and sell these people on the positive value of letting you begin to telecommute.

Here's a brief list with which to start:

- Improved access to qualified labor through a wider geographical area and reduced impact from logistical problems that would prevent people from taking jobs requiring physical commutes every day.
- Improved productivity. A 10 or 20% increase in quantity and/or quality of results is not uncommon among people who shift to telecommuting, and telecommuters can work on days they're too sick to come into the office.
- Lower turnover. Telecommuting reduces any need for people to quit their jobs because of logistical problems.

Focus your talks on developing an agreement with your immediate supervisor, and with other decision-makers who may become involved. It's one thing to talk in general terms, it's more persuasive and productive to talk about telecommuting in concrete terms.

4) Get needed training and equipment

Telecommuting is at first a bit difficult for some people. It's a working pattern that goes against all the years of training and habit that make it seem normal to leave home in order to work, and to stop working in order to return home.

Training can be valuable when it helps a new telecommuter learn the skills and adopt the mental attitudes that increase his or her chances of success. The right training for new telecommuters should include such topics as:

- Organizing work to do while telecommuting.
- Separating work responsibilities at home from family and friends.
- Providing a suitable workplace, equipment, and supplies—at home or somewhere close by.
- How to maintain lines of communication to and from your usual office.
- How to operate any special equipment needed while telecommuting.

5) Start telecommuting

At a certain point, you've completed all the appropriate advance preparation. There's nothing to do but start telecommuting. This may lead to some problems you didn't anticipate, but with millions of telecommuters already successful at this way of working, there's a very good probability you can solve whatever problems confront you and continue telecommuting for as long as you like.

Take Steps To Assure Success

Most people who begin telecommuting eventually make a success of it. Only a relatively small percentage of people remain unhappy with some aspect of telecommuting, such as working in isolation, working in an uncomfortable situation at home, losing contact with ongoing events at the office, or having to provide near total self-direction while telecommuting. A very large proportion of telecommuters, however, go through an adjustment phase that causes an uncomfortable level of uncertainty and anxiety.

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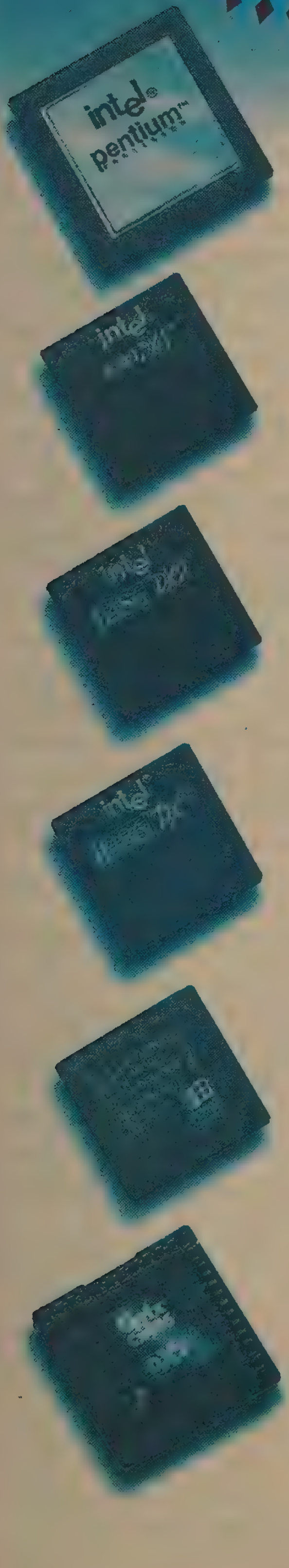

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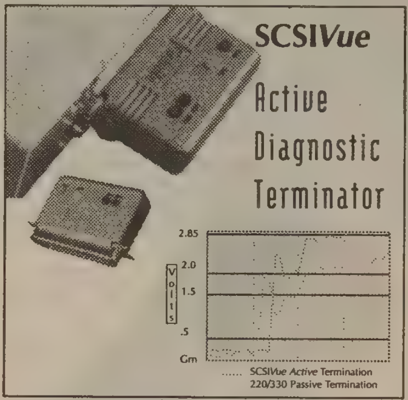
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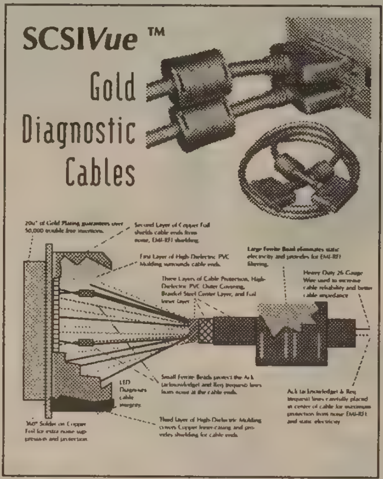

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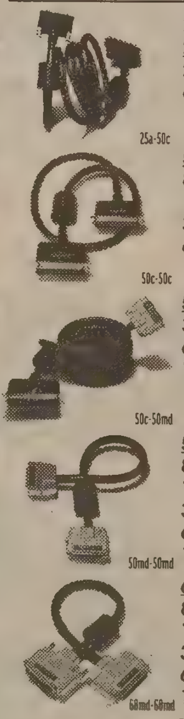

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Telecommuting *continued...*

the same time help to assure your success at telecommuting, by taking time to follow a few simple guidelines:

Plan your work carefully: When you work in the office, with all the people, information, and office machines readily available on short notice, it's possible to maintain a high level of accomplishment with a relatively low level of planning. But when you work as a telecommuter at a distance from the office, you usually can't do things on the spur of the moment. For example, you can't button-hole someone in the hallway and instantly get their advice on how to proceed, or look through voluminous reference materials at a moment's notice to find the answer to an important question, or make copies whenever you need to. So to maintain a good level of productivity while telecommuting, you must do a little more planning.

Among the things to plan are: What work will you do each telecommuting day, and what resources will you need to do that work?

When will you need to contact various people, and can you arrange your workday so you will need each one only when he or she is readily available?

How will you satisfy basic work requirements—like copying, faxing, receiving messages, handling two calls at once, and so forth—that are easy at the office because of specialized resources available there?

Concentrate on maintaining communications: When you work in the office, where everyone spends most of their time within fairly easy reach, it's possible to stay in contact with office information (and the grapevine) almost without effort. But when you work as a telecommuter, your distance from the office lets you be forgotten, or otherwise left out of important briefings on office information. So you must make two special efforts: first, to maintain contact with people at the office who will keep you thoroughly informed, and second to ask enough questions about events that take place when you are absent.

Take your responsibilities seriously: The shift from office-bound work to a telecommuting pattern is a liberating one. But while it gives you extra freedom to plan and schedule your daily activities, it doesn't relieve you of the responsibility to accomplish your work-goals and perform to an acceptable level of excellence. Too often, telecommuters grow giddy with their new-found freedom and temporarily allow their performance to decline. If you want to avoid these problems, pay special attention to these matters from your very first day of telecommuting.

Solve your practical problems: Most people tend to be very flexible, and do their best to soldier on despite poor lighting, a squeaky chair, a work surface that's too low or too high, or inadequate ventilation. They can also tolerate inadequate phone service, lack of needed equipment or reference materials, and so forth. But don't tolerate adversity too quickly. When you begin telecommuting, you make a commitment to maintain your productivity while working at home (or at a nearby location) over a relatively long period of time. So don't make honoring that commitment more difficult by compromising on day-to-day details. Instead, try hard to eliminate any practical problems that might lessen your ability to deliver top-notch performance. ■

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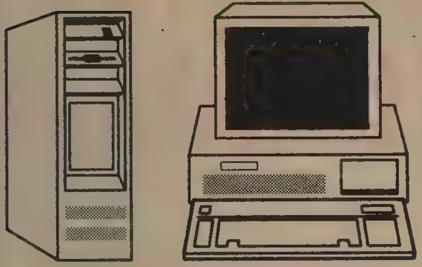

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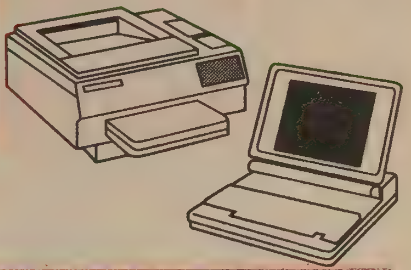

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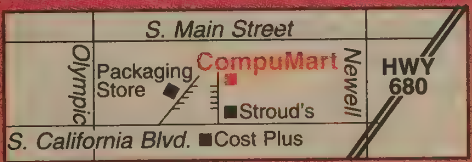

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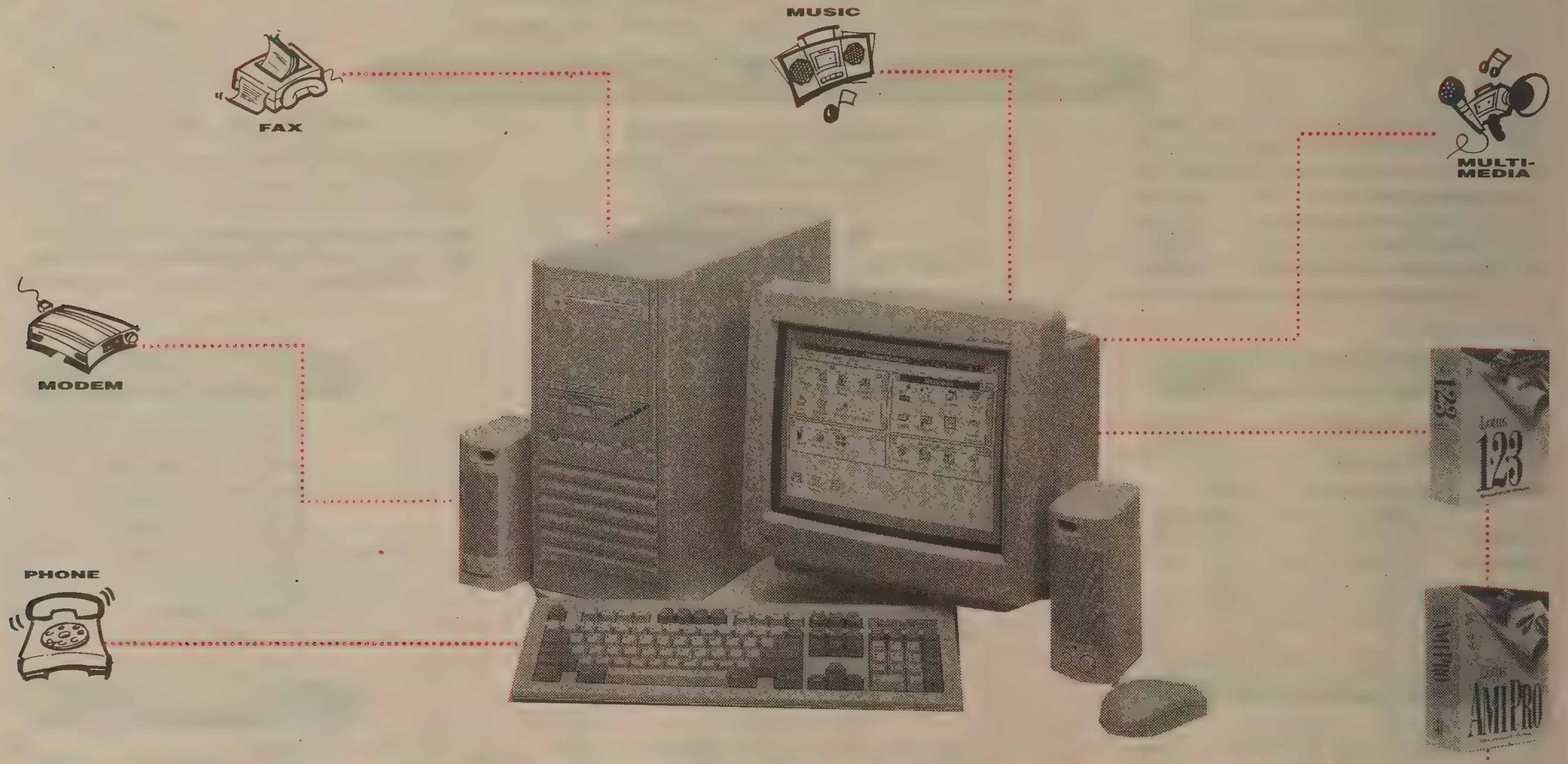

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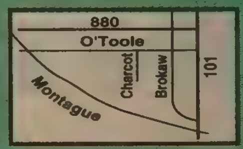

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OS/2 • BY FABIAN PASCAL

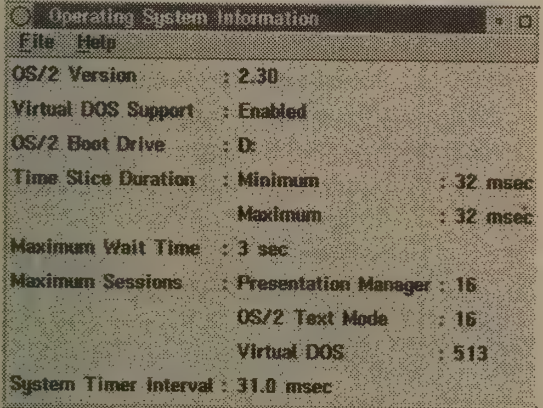
Down (Or Is It Up?) Memory Lane

How OS/2 Handles RAM

In January's column I gave my general impression of Warp. I grounded its title "A Warped Versioning Concept?" as follows:

"Looked at in more detail, [while the improvements in Warp are] useful and welcome, to those of us who have been with OS/2 since its inception, they are mainly cosmetics, or corrections of weaknesses too long overdue. Do they really justify a full version point?"

Imagine the gratification I felt when I accidentally discovered that SysInfo, a utility in the BonusPak, identifies Warp as actually OS/2 version 2.30!!! (see Figure 1). Apparently, 3.0 was originally intended to be the multiplatform version, which Warp is certainly not.



```
OS/2 Version          : 2.30
Virtual DOS Support   : Enabled
OS/2 Boot Drive       : D:
Time Slice Duration   : Minimum                : 32 msec
                        Maximum                : 32 msec
Maximum Wait Time     : 3 sec
Maximum Sessions      : Presentation Manager : 16
                        OS/2 Text Mode         : 16
                        Virtual DOS            : 513
System Timer Interval : 31.0 msec
```

Figure 1

So I was pretty smug when the editor received a letter taking *MicroTimes* to task for allowing me, an "enemy" of OS/2, to cover it. The letter also complained about inaccuracies in my coverage, but its author's main specific claim was the following:

"[Pascal]'s 'requirements' for OS/2 use are inaccurate. OS/2 2.1 runs well on 8 megs of memory, and Warp does better. 16 is preferable (it is also for Windows) but certainly not a requirement."

Therefore, I take this opportunity to offer a more in-depth treatment of memory usage in OS/2.

Setting Matters Straight

Let me preface everything by restating that memory requirements, as with resources in general, vary with a user's specific needs. Any general or average requirements should, therefore, be specified with extreme care and responsibility. This is particularly true for OS/2 where, as we shall see, figuring out the requirements is hardly straightforward.

The term "requirements" mentioned in the complaint seems to refer to my following statement in the January (Warp overview) column:

"While Warp is claimed to run in as little as 4MB of RAM, I have not lowered the minimum memory requirement for OS/2, because multitasking DOS, Windows, and OS/2 applications—which is what OS/2 is all about—will need more, particularly since OS/2 native applications must yet become efficient."

But note very carefully that the "requirement" was part of my original minimal "recommendations" for a notebook that would run OS/2 and run it well, and which was repeated, so labeled, in the Warp column, as a minimum of 16MB. Although it would have been, perhaps, better to stick to the term "recommendations" in the text too, the fact is that in the context at hand the difference between the two terms is, for all practical purposes, moot—I explicitly specified the 16MB minimum for "multitasking applications" (indeed a major, if not the main, benefit from OS/2). It would make little sense to spec any hardware platform for just the operating system itself.

Furthermore, I also took into consideration (in a rather understated manner) the inefficient memory handling of current native OS/2 applications (see below). My point was, and remains, that in order to multitask applications, particularly OS/2 native applications—and well!—a system better have at least 16MB.

Be that as it may, what if we do consider OS/2 alone, as the complainer seems to have done? Would that invalidate my 16MB claim?

The Virtual Reality Of Memory

Rick Papo, developer of the MemSize resource monitoring utility says:

"It is true that OS/2 Warp will run with 4MB of *physical* memory, but the system requires far more *virtual* memory... Warp indeed has lesser resident memory requirements than earlier versions of OS/2, but the total memory requirement is far higher..."

We will see shortly how much higher, but first it is important to understand the virtual memory mechanism. OS/2 will run if you have a low amount of memory, but only by swapping to disk any memory contents in excess of the physical memory available. Tony Pereira, developer of the Performance Plus tuning and utility kit for OS/2, explains:

"[As] a 'demand paging' virtual memory system...during boot OS/2 will load into memory... When [physical] memory has been filled and OS/2 needs more memory, [it] identifies those pages that have been least recently referenced and 'frees' them for use. So memory [may frequently] appear to be just about full[y used in low-memory systems]."

OS/2 *continued...*

Because disk operations are much slower than memory operations, swapping affects performance considerably. The virtual memory approach ensures that OS/2 will run even with low amounts of physical memory, but performance may become unacceptable, particularly with heavy multitasking (hence my emphasis above).

One of the purposes of the January column was to check out the practicality of IBM's claim that Warp runs in as little as 4MB of physical RAM, by testing it on a Cypress Pentium notebook with that much memory. It did run, but even with many features not installed and no applications running, performance was unacceptable due to heavy swapping. The menus alone took several seconds to pop up!

So the question is how much memory will "basic" Warp need before it swaps (again, ignoring applications)? The validity of the claim that "Warp runs well in 8MB or less" depends on the answer. After I boot Warp and activate a few minor applications (e.g. resource monitor, screen blanker) on my EISA desktop system with 28MB of physical memory, resource monitors like MemSize or PMPatrol show that only close to 11MB worth of RAM remains free. Even if I strip my CONFIG.SYS of most memory consuming features (caching, buffering, and optional device drivers) and don't start applications, Warp still uses a little over 15MB. Figure 2 compares the memory usage displayed in both cases by IBM's OS20MemU utility.

As it turns out, most of the memory used is taken by a large number of system Dynamic Link Libraries (DLLs). These are libraries of system functions that various OS/2 components and applications call as needed. IBM chose to preload DLLs so that they are available in fast memory, which improves performance whenever they are called, but if and only if enough physical memory is available to hold them and they are really called. Otherwise the preloaded DLLs consume memory that could be available for other purposes, and may cause swapping that defeats much of the purpose of preloading (Papo notes that the Win-OS2 FastLoad option, should you choose it, "takes another 10MB").

So a basic, workable Warp configuration loads about 16MB or more into memory on my system. You can use PMPatrol to display all active (that is, loaded) modules—not just the DLLs, but also the installable file systems (HPFS and CD-ROM) and the various drivers—on your system. But generalizing from this is tricky.

First, as Papo explains, to interpret memory usage correctly is rather complicated because, for example:

"DLL memory consumption has three parts: code, private data, and shared data. Shared data, of course, is shared across all instances of the DLL loaded by the different programs on the system. Private data gets a fresh copy each time the DLL is activated by a new customer. Code is shared across all [client functions]. The best way to get the memory consumption of each individual DLL is with [IBM's utility] OS20MemU. It will give you a list of all the currently active programs and will allow you to see a detailed list of every single segment allocated for each individual piece loaded by the program, including all the DLLs activated."

Second, according to Pereira, even with a resource monitoring program it is not easy to figure out memory requirements:

"After running multiple applications for a 'normal' period of time, a memory monitor may help you determine the 'working set' of memory needed for your multitasking applications. [But] [t]his is also difficult to determine—since the 'proper' working set is 'the amount of memory needed to properly run a set of applications WITHOUT EXCESSIVE PAGE SWAPPING.' So, to get a good reading from a memory monitor you need to push your system right to the point of page swapping without going into 'excessive' page swapping—which is only detected when performance degrades—at which point in time it is already too late to get a good measurement."

In fact, this is not that easy for programmers to figure out either. No wonder memory usage in OS/2 is not always as efficient as it should be.

Papo references some design inefficiencies in Warp itself (e.g. the revised swapping engine, the new OMNI printer driver), which cause it to actually consume more RAM than 2.1, but the details are beyond the scope of this discussion.

Finally, according to the developers of PMPatrol:

"As for the loaded modules issue...on a 32 meg system, you will see more memory usage because OS/2 uses an algorithm to determine how much memory it is possible to use and still have plenty left over. It loads even things that might not be essential, but things that matter in the case of speed. Much of the other func-

continued on page 247

OS20MEMU Expanded System Statistics (only differences shown)

Storage Used Detail:	**Stripped Size (Kb)**	**Base Size (Kb)**
	fffffffff	fffffffff
Installed Machine Memory	28264	
Virtual Machine Size	22772	29804
Size of Swap File	2048	
Amount Swapped to Disk	0	
Shared	6888	7184
Free	15408	10560
Fixed	40	44
Memory In Use Detail:	**Size (Kb)**	**Size (Kb)**
	fffffffff	fffffffff
Memory In Use	12856	17704
- Memory In Use - Swappable	9112	10460
- Memory In Use - Discardable	808	956
Total System Memory		
Resident	3032	6368
Swappable & In Memory	3724	4068
Swapped to Disk	0	
System Memory for Vdisks	0	
System Memory for Disk Cache ..	0	4096
System Memory for Application Private Objects		
- Resident	69	124
- Swappable & In Memory	72	112
- Swapped to Disk	0	
System Memory for Shared Objects		
- Resident	67	83
- Swappable & In Memory	204	340
- Swapped to Disk	0	

Figure 2

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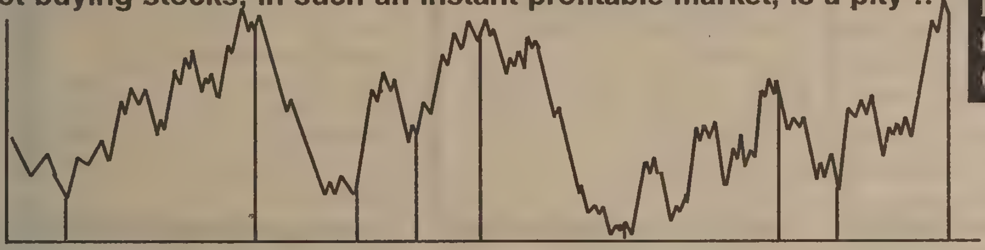

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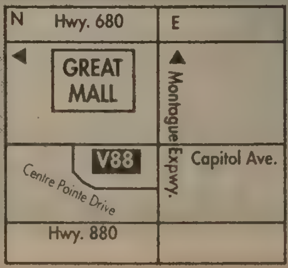

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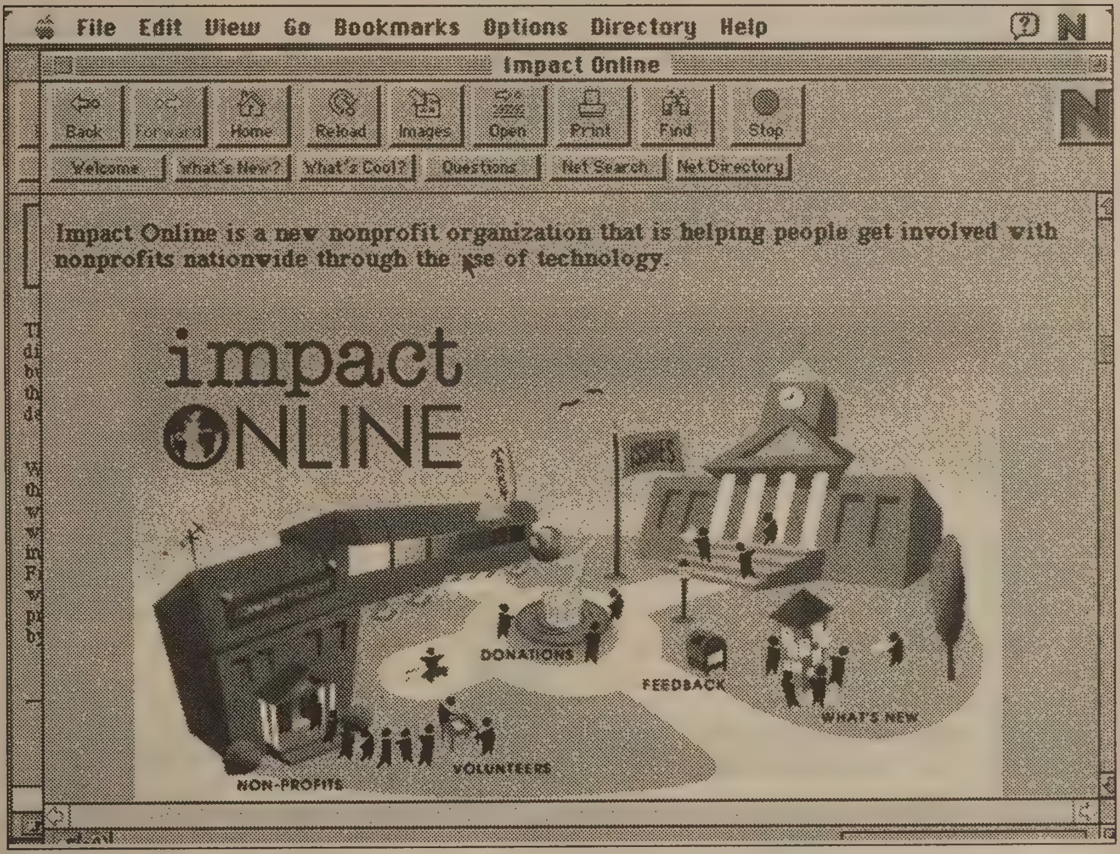

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"Last, we participate on a daily basis on a variety of forums. These are used to keep abreast of users' ideas and reactions to various products, for example.

"The professional public relations community is currently debating how we can best use the resources of the Internet on behalf of our client companies. There are sincere ethical considerations about placing information into the 'system' without upfront attribution regarding the source of that information. But, that is another, and very lengthy, topic for discussion...."

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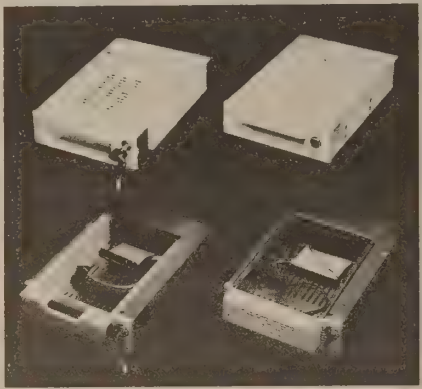

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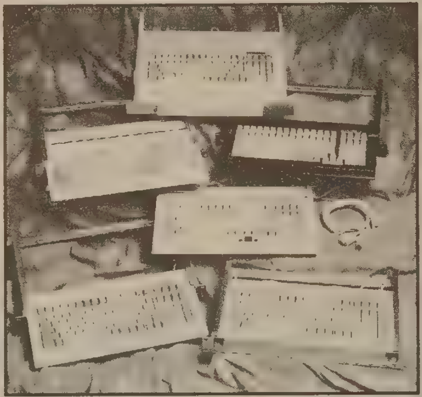

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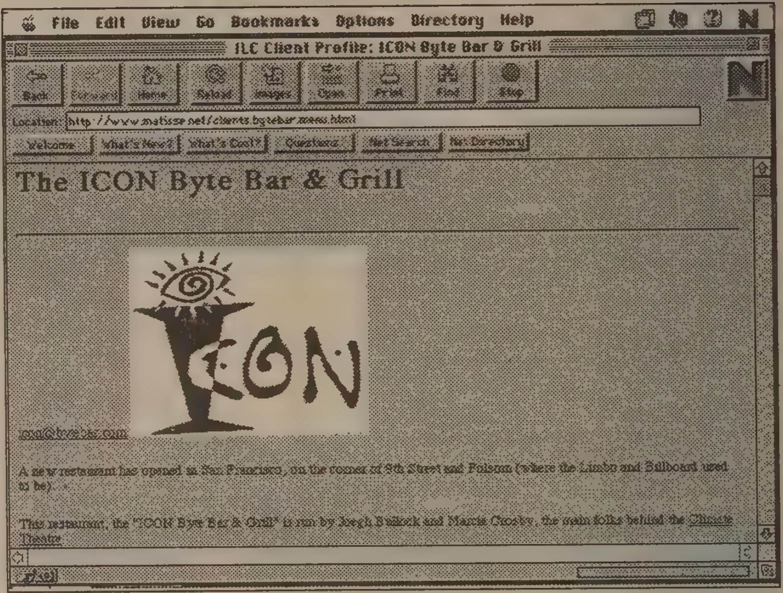
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A Bible Translator

John Baima operates Silver Mountain Software. He provides Bible translation software for the truly hard-core among Bible readers—those who want it in the original languages or early translations. Rabbis in Alexandria, Egypt, translated the Hebrew Bible into Greek papyri; John can provide their translation for you on CD-ROM. He can provide texts in Latin, Hebrew, Greek, and Coptic—annotated, parsed, and indexed. He is doing it as a profession.

Baima was trained as a physicist, and worked for Boeing before he became an independent software developer and purveyor. "I couldn't run the business without the Internet. For instance, all my betas are on the Internet. I send them all in one fell swoop. I send out betas to the United States, Ireland, Canada, and Germany. I can mail them out and get feedback all the same day. The Internet has made a dramatic difference in production quality and production cycle."

(*jbaima@onramp.net*; Silver Mountain Software, 1029 Tanglewood, Cedar Hill, TX 75104-3019; 214/293-2921)

A Small Country's Tourist Industry

Civil Rights Attorney Susan Garcia and her husband Izzy own condos in Belize.

Most of the small businesses in Belize can't afford to advertise in the US, because of the high cost of American magazine page space. Susan Garcia undertook to create a Web site for the Central American country's tourist industry.

She and her husband created the project jointly with a Belizean businessman, Manolo Romero, who is trying to bring the Internet into Belize. Garcia got Internet books and contacted professional consultant Matisse Enzer (*matisse@well.com*). She got the help she needed—you can see her 21-page Web site at *http://www.belize.com:8700/*, when the circuits aren't busy. They have been endorsed by the Belizean government and the Belizean Tourist Industry Association.

"Our goal," she says, "is to let small businesses in Belize advertise.

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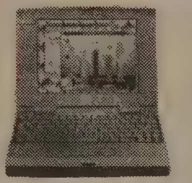

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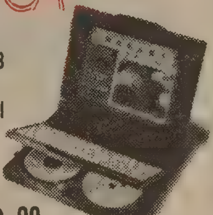

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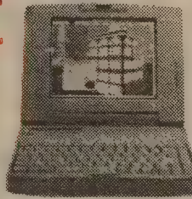

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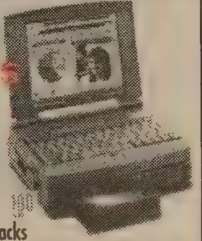

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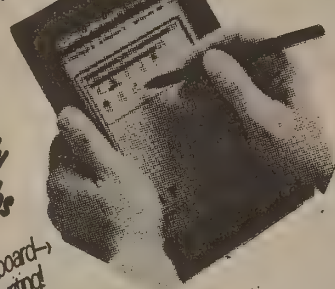

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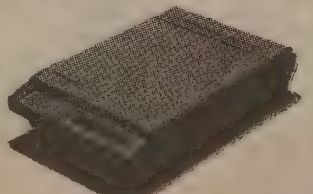
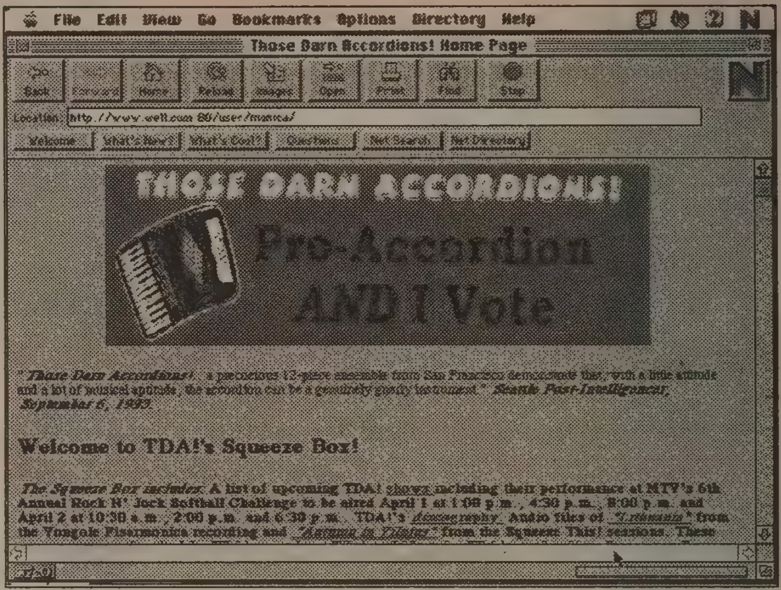


Small Office, Home Office *continued...*



"*Those Darn Accordions!*, a precocious 12-piece ensemble from San Francisco demonstrate that, with a little attitude and a lot of musical aptitude, the accordion can be a genuinely gutsy instrument." *Seattle Post-Intelligencer, September 6, 1993.*

Welcome to TDA!'s Squeeze Box!

The Squeeze Box includes: A list of upcoming TDA! shows including their performance at MTV's 6th Annual Rock N' Jock Softball Challenge to be aired April 1 at 1:00 p.m., 4:30 p.m., 8:00 p.m. and April 2 at 10:30 a.m., 2:00 p.m. and 6:30 p.m. TDA!'s discography. Audio files of "[illegible]" from the [illegible] Fisarmonica recording and "[illegible]" from the Squeeze This! sessions. These

Our most expensive ad will be $750 a year." She also wants to get those businesses online through Romero's Belize Online (*@upr2.clu.net:sysop@online.com.bz*), so they can exchange messages with the world at a price they can afford. You can reach her at *itm@belize.com* or at *susangg@mediacity.com* .

An Online Restaurant

The Icon Bar and Grill at Ninth Street and Folsom in San Francisco's South of Market is also an Internet drop-point, created by people involved with the Climate Theatre. You may walk into the Icon to look at their underwater television set, but you will soon be drawn to the free (yes, free) Mosaic browser that sits in the middle of the room. From it you can leap online, with Netscape in color on a decent Mac.

The restaurant is also on the Web. They have the menu up:

BITS:	
Mixed Green Salad	3.5
Soup of the Day	2.5
Basket O'Fries	2.0
Icon Fauxgotcha bread (baked daily)	1.5
BYTES:	
Bowl of Clams in a Digital Broth w/fennel, garlic and fresh herbs	5.5
Broccoli Salad w/Fresh Corn, Feta & Black Olives tossed with balsamic vinegar	3.75
Soft Polenta w/Roasted Garlic & Sage laced with pecorino cheese	3.5
Warm Spinach Salad w/Shredded Duck Confit	4.75

(and many more items). Drop in at *http://www.matisse.net/clients.bytebar.menu.html* .

An Accordion Band

Those Darned Accordions! is an accordion band. They are going to heaven, someday many years from now, for a command performance, because God likes accordions.

Those Darned Accordions! has a Web page. I asked band archivist Monica Brady (*monica@well.com*) about the band's online presence,

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486DX2-66C	66	165	279	859	919
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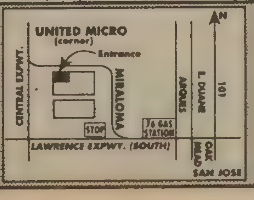

Small Office, Home Office *continued...*

and if they ever sold anything through their online catalogue:

"Yes, we have sold *Squeeze This!* CDs and Lady of Spain T-shirts. We have received requests via email for merchandise order forms, and I've been told that the folks who requested those have made orders. I think the hot seller will be the TDA! FAKE tattoos.

"We haven't gotten any bookings through the Web page, but some correspondence happens via email in following up with agent and promoter representatives about booked or potential TDA! shows. Also, band members pass on information to me for the Web page via email, and discuss among themselves band business. Yes, most of them are wired."

Does it take much effort to maintain the pages, I asked, and what about the cost-benefit ratio?

"Making the time to expand and maintain the Web page takes effort, and the cost is minimal. The bassist of the band, Lewis Wallace, recently acquired a home computer and we talked just today about planning time to work on the TDA! Web pages together. Luckily between all of our accounts, we have a couple of megabytes of room to add more picture and sound files. There's room to grow, and by god, like the bellows of an accordion we shall expand!!

"For the band, having a Web page is important because fans can get up-to-date information on upcoming shows, they sell merchandise, and as well sell themselves. This is all quite beneficial in their business, as in any business. It's like having fax capabilities. Those who are serious about business have a fax, but also have a Web page too."

The Web Page for Those Darned Accordions! is *http://www.well.com/www/monica/*.

An Online Charity

Chip Hall is a persistent fellow. He works for Niehaus/Ryan/Haller Public Relations (415/615-7907). When he found out I was doing this story, he would not let me rest until I included word of one of their pro-bono clients, Impact Online.

"The Internet represents a luxury that only a few can afford, yet knowledge of its technology and culture is quickly becoming a necessary skill for today's world. It is already accepted fact that general computer skills are a necessity for today's youth, but again, access to the required resources is not ubiquitous.

"Our new 'Information Age' is slowly developing two new classes of society: the information rich, and the information poor. It is our goal to help those who are poor.

"Impact Online is a nonprofit group whose charter calls for assisting other nonprofits in using the resources of the Internet as a channel of communication. We are organizing an effort that will begin to address the need to support organizations offering computer education and access to those lacking such resources. Cookin' on the Net is a fundraising program designed to fund nonprofit programs who get economically disabled kids access to the computer resources that will help build their futures.

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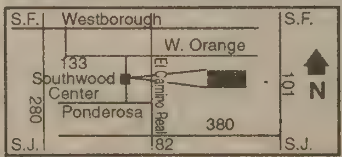

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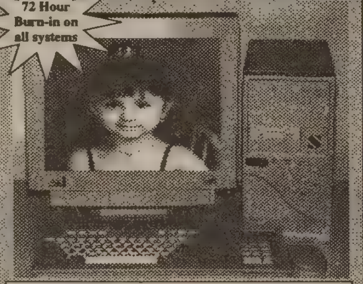

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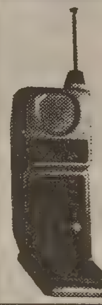

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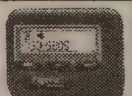

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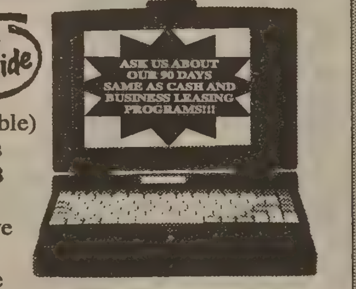
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"Such an endeavor is large, and cannot be done in one campaign. Cookin' on the Net will soon be offering its first course: a chance for the Internet community to purchase appetizers from five of America's leading chefs."

Among the chefs are Michela Larson and Jody Adams of Rialto in Boston, Chicago's Charlie Trotter, and San Francisco's Jeremiah Tower. This charity has done its homework, and gotten absolutely first class participant chefs.

You can purchase recipes from the chefs for ten bucks. The money will go to making the Internet accessible to kids who would otherwise be excluded from the fun.

The project will launch in June. If you (gentle reader) don't take part, I will give Chip Hall your phone number, and he *will* convince you.

Impact Online itself has a Web site for Cookin' on the Net and its other projects at *http://www.internex.net/impact/home.html*. You can reach them nonvirtually at their tiny office: Impact Online, 4144 Abel Ave., Palo Alto, CA 94306; (415)493-7665 voice; (415)493-7668 fax.

So Can Small Businesses Use The Internet?

Obviously, yes. People who are not computer professionals are doing business right now on the Net. Some businesspeople are using the Net to move information fast, across the state or around the world. Some are using the Net to let them move to a place they have always wanted to live—without being out of touch.

Some are borrowing manuals and designing their own Web pages. Some are finding professional consultants and relying on them to build a Net presence. Many of the Web pages are mostly text and simply laid out. But they are up and running—and working.

It is clear that the pattern of small entrepreneurs doing the exploring—the pattern which created the computer industry itself—is being repeated by small businesses as they move onto the Net.

I began the research for this column wondering if there were any small businesses at all out there. Now I wonder why they are not all online. The Internet provides an indexed, worldwide connection to intelligent people who buy things they are interested in. If they are your market, this is one place to find them. ■

Birrell Walsh (***birrell@well.com***) did not receive PR consultation, a week in Belize, an accordion cassette, or a free meal while writing this column. Ethical or unfortunate: you decide.

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3.0GB	MC1936	13ms	5.25"	$859	$1059
4.0GB	MC3243	8.5ms	3.5"	$1349	$1449
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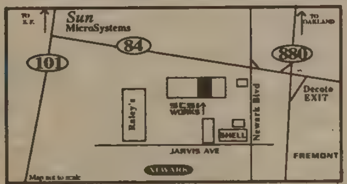

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DX33\2-50\2-66\4-100	$115\$139\$165\$239
P60\P66\P75\P90	$255\$289\$309\$409
P100\P120	$529\$1269

AMD 486 DX CPU's

DX2-50\DX4-100	$119\$179
DX2-66(3Volt/5Volt)	$135\$149
DX2-80(3Volt/5Volt)	$139\$155

IDE CONTROLLERS

BUSLOGIC *IDE CACHING CONTROLLERS*

- High Performance w/Avg seek of 0.3ms.
- AutoIDE for easy setup.(Supports 4HD up to 4GB Each)
- Uses standard 30Pin SIMMS -512KB up to 16MB.
- Disk Mirroring for 100% disk fault tolerance.

32-Bit VLB up to 20MB/sec	$125
16-Bit ISA up to 5MB/sec	$95
32-Bit PCI up to 20MB/sec	$168

PROMISE TECHNOLOGY, INC.

IDE & SCSI CACHING CONTROLLERS

EnhancedIDEVLB w/16550 IO & Ext BIOS	$69
16 Bit ISA CoExist w/BIOS up to 8.4GB	$29
32 Bit VLB Caching 4HD+1 ATAPI CD-Rom	$169
VLB 2HD/2FD 512K (up to 1MB)2S/1P	$99
BusMaster SCSI/IDE VLB w/IO	$189
4HD/2FDUp to 19MB/S Trans Rate	$109
BusMaster PCI IDE Caching Controller	$149
BusMaster PCI FAST SCSI-2 Controller	$Call

HDSS

200	16Bit ISA 2HD/2FD Controller w/Cables	$12
211	16Bit ISA 2HD/2FD w/2Serial\1Par\1Game	$19
223	32Bit VLB 2HD/2FD 2S/1P/1G	$21
243	32Bit VLB 2HD/2FD 2S/1P/1G E-IDE	$39
400	16Bit ISA 2HD/2FD 2-16550S/1EPP/1G	$39
500	32Bit VLB 2H/2F 2-16550S/1EPP/1GE-IDE	$44
600	32Bit PCI 4H/2F 2-16550S/1EPP/1G E-IDE	$54

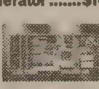
Increases Performance of IDE & Floppy Drives. Doubles the Transfer Rate on Floppy Tape Backups. NEW!

MODE 3 & 4 VESA Extender Modules

Extends Any GSI ISA to full VESA 32Bit	$78
Supports 4 IDE on GSI ISA 2-IDE Channel	$128

HIGH PERFORMANCE CONTROLLERS with INTELLIGENT BIOS

8-Bit 4FD(2.88) -250MB Tape Accel Card	$49
16Bit2HD Co-Exist w/IDE-MFM-ESDI-RLL-SCSI	$38
16Bit ISA BUS 2HD/4FD (2.88 Support)	$59
16Bit MultiPort IDE,Floppy,Tape,HiPerf. I/O	$99
16Bit 4 Channel, 8 IDE Drive accelerator	$149



Full Mode 3 & 4 Drive Support

32-Bit PCI up to 11MB/S Transfer Rate	$29
32-Bit VLB Caching 4HD up to 19MB/Sec	$119
16Bit 2HD Co-exist w/IDE-MFM-ESDI-RLL-SCSI	$19
32-Bit VLB with MultiFunction I/O	$29
16-Bit PC/AT IDE Super I/O 2S/1P/1G	$23

Acculogic

8BIT PC/XT IDE CONT. W/BIOS	$38
32-Bit PCI 2HD/ENHANCED IDE	$39
16BIT 2H/2F IDE CONT. w/Smart BIOS	$48
32-Bit 2HD/2FD(2.88)16550 I/O VLB E-IDE	$89

IDE Connectivity solutions with PowerIDE HD & CD drivers *for* DOS & Windows.

16-Bit IDE-16002 IDE CD-ROM KIT	$29
16-Bit IDE-16030 AT VALUE PAK	$44
32-Bit IDE-32000 VLB VALUE PAK	$85
32-Bit PCI-32100 PCI VALUE PAK	$68

32-Bit VLB,2HD/2FD,E-IDE,2-16550 High Speed Serial,EPP and ECP,2.88 Support	$48
Similar to Above with BIOS,Dual Chnl 4HD/2FD, >528MB Support (Jumperless)	$55
16-Bit ISA,2HD/2FD,2-16550 High Speed Serial, Bi-Directional Parallel EPP and ECP,2.88 Support	$39
32-Bit PCI/E-IDE/Dual Chnl 4HD, >528MB Support, up to 13MB/sec data transfer	$29
16-Bit ISA,Dual Chnl 4HD/2FD,4-16550 High Speed Serial,2-Bi-Directional Parallel EPP and ECP	$85
32-Bit VLB + Fast SCSI-2 (>1GB Support),E-IDE >528MB Support,2-16550 High Spd Ser,1-Bi-Directional Parallel w/EPP-ECP,2.88 Sup (Jmprless w/Drivers)	$119

PC / MAC MEMORY

Call for Lowest Prices

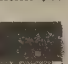
1x3/60-70ns	1MB 3 Chip	2x36/60-70ns	8MB 72 Pin
1x9/60-70ns	1MB 9 Chip	2x32/60-70ns	8MB 72 Pin
	1MB 8 Chip		16MB 72 Pin
	4MB 9 Chip		16MB 72 Pin
	4MB 3 Chip		32MB 72 Pin
	4MB 72 Pin		32MB 72 Pin
	4MB 72 Pin		32MB 72 Pin

SCSI CONTROLLERS

adaptec

16-Bit ISA TOTAL CD SCSI-2	$57
16-Bit ISA TOTAL CONNECT SCSI-2 KIT	$89
16-Bit ISA SCSI-2 (7 Dev) CARD Only	$99
16-Bit ISA SCSI-2 (7 Dev) + 2FD KIT	$139
16-Bit BusMaster Fast SCSI-2 (CARD)	$199
16-Bit BusMaster Fast SCSI-2 (KIT)	$239
Full SCSI ISA with Advanced Audio	$249
16-Bit MicroChannel for PS/2,7HD CARD	$235
16-Bit MicroChannel for PS/2,7HD KIT	$299
32-Bit TWIN-EISA KIT, 14HDs	$348
32-Bit WIDE EISA KIT w/WIDE CABLE	$379
32-Bit VLB E-IDE/SCSI-2 KIT	$158
32-Bit Fast SCSI-2 VLB KIT	$259
Slim SCSI PCMCIA KIT **NEW **	$199
CARD PARK-PCMCIA CARD Reader **NEW**	$178
32-Bit PCI SCSI-2 KIT RISC-BASED I/O	$279
32-Bit PCI Wide KIT w/ WIDE CABLE	$349
DUAL CHANNEL PCI CONTROLLER KIT	$409
DUAL CHANNEL WIDE PCI KIT **NEW**	$479
PCI RAID Adapter w/3 RISC-based Procs	$Call
Parallel to SCSI Plus 250KB/S	$125
Parallel to SCSI EPP 1MB/S	$158

BUSLOGIC



	32-Bit VLB Fast SCSI-2 KIT	$199
	16-Bit ISABusMaster Fast SCSI-2 KIT	$209
KT742A	32-Bit EISA SCSI-2 KIT	$279
	32-Bit EISA Fast SCSI-2 KIT	$299
	32-Bit EISA Fast Wide SCSI Card	$349
	Software Drivers for BT757S	$45
KT946C	32-Bit PCI Fast SCSI-2 KIT	$255
	32-Bit PCI Fast Wide SCSI-2 KIT	$309

DPT *Super High Performance Caching/BusMastering Controllers*

SmartCache III™ & SmartRAID™ SCSI Adapters

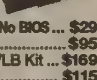
	16 Bit ISA Bus Master Kit	$175
	32 Bit EISA Bus Master Kit	$299
	32 Bit EISA *High Performance*	$399
	32 Bit PCI Bus Master Kit	$269
PM2124	32 Bit PCI *High Performance*	$399

Fast! SCSI-2 CONTROLLERS **Q logic**

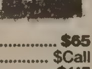
	16-Bit ISA for CD ROMs	$49
	16-Bit ISA-FL	$118
	32-Bit VLB-FL	$199
	32-Bit EISA-FL	$209
	PCMCIA w/Corel SCSI Drivers	$165
QLPCI-B	32-Bit PCI Basic Entry Level	$129
	32-Bit IQ-PCI Wide SCSI-3	$299
	32-Bit IQ-PCI Model 10 Narrow	$209

Technology NEW!

32-Bit PCI FAST WIDE Up to 14 devices*New*	
32-Bit PCI FAST SCSI-2	$199
16-Bit SCSI-2 w/ASPI & BACKUP SW	$138
16-Bit Fast SCSI-2 w/ASPI & Backup SW	$148
16-Bit Fast SCSI-2 /2 IDE/4 FD & S/W	$159
32-Bit FastSCSI-2 Caching EISA w/SW	$669
32-Bit FastSCSI-2 /2IDE/4FL/2S/1EPP	$279
Two IN2000's w/ASPI,SCO,NW & Corel	$1199

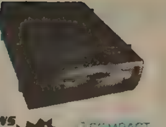


8-Bit Kit-CD,Tape & Scanner Support No BIOS	$29
32-Bit SCSI-2 VLB Kit	$95
32-Bit FastSCSI-2 BusMaster VLB Kit	$169
16-Bit Low Cost ISA SCSI-2 Kit	$115



16-Bit CD ROM KIT	$65
16-Bit SCSI w/PowerSCSI	$Call
16-Bit Value Pack No Floppy	$115
16-Bit Value Pack 7HD/4FD	$125
PCMCIA TYPE-II FastSCSI-2 (10mb/s)	$219
32-Bit PCI VALUEPACK w/PowerSCSI	$199
16-Bit Micro Channel w/Power SCSI	$159
32-Bit EISA SVP (2 Floppy Support)	$369

NEW! AN EASY TO USE CD RECORDER PLAYER THAT STORES UP TO 650MB OF DATA!



Recordable CD

Recordable CD-ROM that allows users to create multimedia titles, data backup archives and custom audio CDs. NEW!

CD-ROM DRIVES

PIONEER

THE HIGH SPEED CD-ROM MINI-CHANGER

- DOS, Mac, OS/2, WIN, VMS, Sun OS, Solaris & UNIX support
- 2048/512 Byte Selectable For Workstations
- Includes S/W for DOS/WIN & Mac Plus a 6CD Magazine

602X	6-Disc 2X Speed 307kb/sec	$389
604X	6-Disc4X QUADRASPIN™ 614kb/sec	$799
04X	18-Disc4X QUADRASPIN 614kb/sec	$1789
00	6 CD MAGAZINE	$29

NEW! **PIONEER SINGLE DISC QUADRASPIN™** INT/EXT

240ms-614kb/sec-256K Cache	$329/$429
240ms-614kb/sec-256K Cache	$329/$429
<150ms-614kb-128K Cache E-IDE	$199/$N/A

TOSHIBA

NEW! *QUAD SPEED 4.4X IDE CD-ROM* $219

Super FAST! CD-ROM Drives INT/EXT

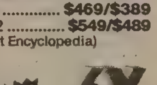
XM3501B	Quad-Speed 4X 120ms/600kb	$359/$459
XM3601B	4.4X-120ms Seek/660kbCaddyless	$349/$449
5302B-IDE	Quad-Speed 4X IDE	$219/$N/A

MITSUMI

- ◆ 64KCache Buffer (Model FX-400B)
- ◆ 600KB/Sec Data Transfer Rate.
- ◆ MultiSession PhotoCD, XA, MPC2 Complient

FX-400B	Quad-Speed 4X E-IDE	$199

NEC



DATA & VIDEO CD-PLAYBACK CD-ROMs

	KIT*/UNIT
3Xp Plus 240ms/500kb/SCSI-2	$469/$389
3Xi Triple Speed 195ms/450kb	$269
4Xi 220ms/600kb/SCSI-2	$469/$389
4Xe 220ms/600kb/SCSI-2	$549/$489

*KIT Includes(16-Bit card &sw,Microsoft Encyclopedia)

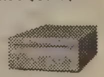
PLEXTOR NEW!

4PLEX & 6PLEX Lightning Fast CD-ROMs

- 125-150ms Seek Time
- 600-900kb/sec Transfer Rate
- 256k-1MB Cache Buffer
- MultPlatform-PC,Mac,UNIX

		INT / EXT
	4-X, 256K Cache	$329/$409
	4-X, 1MB Cache	$399/$499
	4-X, 1MB Cache Mac	$529
	6-X,145ms,900kb,256K Cache	$579/$699

CHINON



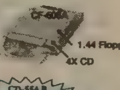
High Performance CD-ROM Drives

- *Top Rated high quality CD-ROM Drives !*
- *32-64K buffer for enhanced performance !*

NEW!

		INT/EXT
525	2X,280ms,64kCache,300kbs	$139/$239
545	4X, 230ms,128kCache,600kbs E-IDE	$199

TEAC NEW!



Standard 3.5"1.44 Drive (M#CF-506A)
195ms,64K Cache,600Kb/sec
Sound Blaster Compatible
Easy to use Plug & Play.

CD-55A B $195

SuperQuad 4X AT Drive	$195
SuperQuad 4X AT KIT (8 Bit)	$219
SuperQuad 4X AT KIT (16 Bit)	$229
ComboQuad 4X CD w/1.44 Floppy	$239

650MB Recordable, Playable CD-ROM

Recordable CD™

- *Model RCD-1000™*
- *Double Speed 1MB Cache*
- *ISO 9660,HFS,Red Book Audio*
- *SW to Make Data,Audio&Video CDs*
- *For PC or MAC.*

$1695

w/Controller for PC...$1859

RECORDABLE CD's

COMPACT disc Recordable

Recordable CD™

External with SW for MAC	$1695
External with SW for PC	$1695
External w/Adaptec Interface	$1859

Smart and Friendly CD-RECORDERS

2* High Performance Double Speed Recorder 1MB Cache	$1659
* Dual-CD High Performance Double Speed Recorder 2MB Cache	$2659
* Warp QUAD Speed Recording 512kB Cache, 17min record time	$3789

*All units include Corel CD-Creator & Adaptec SCSI Adapter.

AUDIO & MULTIMEDIA KITS

CREATIVE CREATIVE LABS, INC. **Sound BLASTER**

Edutainment CD16 Kit 2x CD-ROM, SB16 ,42 Top Quality Educational & Entertainment Titles,Speakers & Mic (Internal)	$409
Digital Edge 16 3xCD Kit 3x CD-ROM, SB16 SCSI-2 with ASP,12 Top Selling Titles,Speakers & Mic (Internal)	$669
Digital School House CD16Kit 2x CD-ROM , SB16, 20 HQ Educational Titles	$279
CD16Kit 2xCD,Game Blaster 16, Joystick, Speakers & Top Games	$379
3x Triple Speed Kit 3x CD-ROM, Super SW Bundle	$279
MULTI-MEDIA Kit	$529
SB Value Edition w/11 SW Bundle	$59
Sound Blaster Value ProEdition	$79
SB16 Value Edition w/CD Interface	$99
SB16 SCSI-2 WB&ASP Upgradable	$169
SB16 SCSI-2 with ASP	$199
SB16MultiCD WB&ASP Upgradable	$129
SB16MultiCD with ASP	$169
SB AWE32 w/Advanced WavEffects	$269
SB-3780 SB AWE32 Value Edition	$229

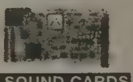
DIAMOND MULTIMEDIA NEW!

COMPLETE MULTIMEDIA KITS

- High Quality Stereo speakers.
- Hot selection of the best selling CD titles.
- 16-bit CD Quality sound card (Wave Table Upgradable).
- Mitsumi or Teac 4XCD(All kits except 1000)/Sanyo 2XCD(1000KIT).
- **Quickstart Video for HASSLE FREE Installations.**

Int 4XCD+Compton's (No Sound card or spkrs)	$259
Int 2X-CD,MIC&HeadPhone w/30Titles	$258
Int 4X-CD w/6 Educational Titles	$389
Internal 4X-CD-ROM & 11 Titles	$299
Int 4X-CD,MIC&HeadPhone w/30Titles	$435
Int 4X-CD w/6 Business Titles	$389

ORCHID



ADVANCED 16-BIT SOUND CARDS

SoundWave 32

SW-32Plus 16-Bit Stereo Sound with FM&Wavetable Synthesis, Mitsumi & Sony CD Interface	$189
SW-32+SCSI 16-Bit Advanced DSP Sound, Mitsumi & SCSI CD Interface,Speakers & Mic	$209

AVEC *By Relisys*

Flatbed Color Scanners

A24PO	2400 3Pass 600x300 PC	$449
A24MD	2400 3Pass 600x300 MAC	$449
R241PTE	2412 1Pass 1200x300 PC	$699
R241PF	2412 1Pass 1200x300 PC	$549
R241MTE	2412 1Pass 1200x300 MAC	$609
R481PTE	4816 1Pass 1600x400 PC	$899
R481MTE	4816 1Pass 1600x400 MAC	$909
R962PTE	9624 1Pass 2400x600	$1795

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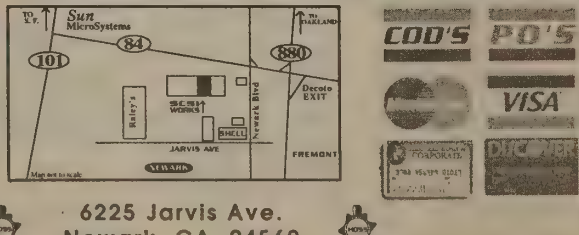

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TAPE BACKUPS

EXABYTE

4.0GB Internal 4200CI Tape Drive Kit
- Adaptec 16-Bit SCSI Controller Card
- Backup Software (DOS,WIN or OS/2)
- Up to 28MB/Min Transfer
- One Data Cartridge
- **48 Hour Replacement WARRANTY**

$930

External Kit $1029

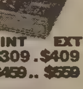
		INT/EXT
EXB-2501	1GB 567KB/sec	$489/$619
EXB-2501K	Complete Kit for PC	$649/$749
EXB-2502C	2GB 1.13MB/sec Compressed	$Call
FS4000	2-4GB 1MB Cache 14MB/min	$1119/$1259
FS4000DC	2-4GB 1MB Cache 28MB/min	$1239/$1489
EXB-4200	2GB up to 28MB/min w/Comp	$779/$879
EXB-4200C	4GB up to 28MB/min w/Comp	$799/$899
8205XL	3.5-7GB up to32MB/min w/Comp	$1289/$1599
8505XLI	7-14GB up to 60MB/min w/Comp	$1999/$2299
EXB-BKT	Exabyte 5.25" Bracket for 3.5" Units	$39

HEWLETT PACKARD

*The **Most Reliable** SCSI Tape Backup for **MAC,PC or SUN**.*

DAT SERIES (4mm)		INT / EXT
35470A	2.0GB 3.5" 183kb/sec DDS	$779/$879
35480A	4-8GB 3.5" up to 732kb/sec DDS	$859/$949
C1533A	4-8GB HW DataCompression DDS-2	$1019/$1119
C1553A	24-48GB 6Cart Autoloader Upg.	$2249/$2369

CONNER



Archive VIPER SERIES		INT	EXT
2150S	250MB 112KB/sec	$309	$409
2525S	525MB 200KB/sec	$459	$559

Python™ DAT SERIES (4mm)

4320/50	2GB up to 11MB/min - INT/EXT	$799/$989

CONNER TAPE·STOR™ Mini Data Cart Drives

TS250	250MB Runs Off Floppy Port	$148
TS420	420MB Runs Off Floppy Port	$169
TS420P	420MB Runs Off Parallel Port	$319
TS850	850MB (QIC WIDE) Floppy Port	$264
TS850P	850MB (QIC WIDE) Parallel Port	$389
TS1700	1.7GB (QIC WIDE)- w/Floppy Cont	$319
TS4000	4.0GB (QIC WIDE)-SCSI	$529
TS4000E	4.0GB(QIC WIDE)-SCSI External	$619

COLORADO

INTERNAL: RUNS OFF FLOPPY PORT		
DJ20	250MB (JUMBO 250)	$138
DJ35	350MB (JUMBO 350)	$169
DJ25	680MB (JUMBO 700)	$255
T1000	800MB HP Colorado T1000	$229
DJ50	1.4GB (JUMBO 1400) *NEW*	$349

JUMBO Accessories.......		
FC20	8-Bit Tape Accelerator	$89
TC-15	16 Bit High Perf. Accelerator	$189

POWERTAPE

		INT / EXT
PT10	1.0GB SCSI-2 -1/4"	$589 /$N/A
PT25	2.0GB SCSI-2 -1/4"	$929/$1029
PT50	4.0GB SCSI-2 -1/4"	$1119/$1239
PD60	2-4GB SCSI-2 DAT	$999/$1099

Trakker

EXTERNAL: RUNS OFF PRINTER PORT		
JT20	250MB TRAKKER 250	$269
JT35	350MB TRAKKER 350	$335
JT25	680MB TRAKKER 700	$389

WangDAT

4mm DAT SCSI TAPE BACKUP		INT / EXT
3100	2.0GB 3.5" DDS 183kb/s	$759/$859
3200	4-8GB 3.5" DDS-DC up to 366kb/s	$799/$899
3400DX	4-8GB DDS-2 22-44mb/min	$999/$1099

WANGTEK

5.25" 1/4" SCSI TAPE BACKUP		
5150ES	250MB 6.75MB/min	$309/$N/A
5525ES	525MB 12MB/min	$419/$N/A
51000HT	1.2GB 17.1MB/min	$649/$739
9500DC	5-10GB 36-72 MB/min	$999/$1099

SCSI BACKUP S/W

NovaBack by NovaStor

NBDOS	SINGLE USER FOR DOS	$65
NBWIN	SINGLE USER FOR WINDOWS	$69
NBOS/2	SINGLE USER FOR OS/2	$39
NBNET50	NLM 50 USER (DOS)	$295
NBNETU	NLM UNLIMITED USERS (DOS)	$395
NBNETJr	NLM JUNIOR (DOS) for Networks	$239
NBMAC	Nova MAC for Macintosh	$99

OPTICAL DRIVES

Maxoptix

1.3GB Rewritable Optical Drives		INT/EXT
Tahiti-4M	*1MB* Cache buffer	$CALL
Tahiti-4M	*4MB* Cache buffer	$CALL
Tahiti-3M	*1MB* Cache buffer	$1979/$2169
Tahiti-3M	*4MB* Cache buffer	$2049/$2249
1.3GB Cart	(512or1024b Sector) Glass/Poly	$189/$149

HEWLETT PACKARD — *Rewritable Optical Drives*

C1716T	1.3GB 5.25" INT/EXT	$1959/$2149
C2550A	1.3GB 5.25" External	$2429
C1100A	20GB Ext Juke Box (20XT)	$4589
1.3GB(1024b/s) or 1.2GB(512b/s) cartridge		$109

FUJITSU

DynaMO 2512A 230MB 3.5" Optical

Internal/(External with cart)	$559/$699
EXTERNAL w/16 Bit Adapter & Cart for PC	$779
EXTERNAL w/Software,Cable & Cart for MAC	$699

PINNACLE MICRO

Tahoe 230

The Next Generation of the 1st Portable Optical Drive

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Tahoe230 PCT	Portable for PC (Parallel)	$1049
Tahoe230 PCA	Portable w/Adaptec Interface	$1089
Tahoe230 PCAN	Portable for PC (no Interface)	$759
Pak-Travel	Battery,charger & travel case	$195

Sierra 1.3GB

1.3GB Optical Hard Drive Storage System

Sierra1.3 MAC	EXT 1.3GB for MAC	$2249
Sierra1.3 PC	EXT w/Adaptec Interface	$2399
Sierra1.3 PCAN	EXT for PC (no Interface)	$2289
Sierra1.3 PCI	INT w/Adaptec Interface	$2249

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Maxell/3M/Sony	90 Meter	$15/$65
Fuji-DG90M	90 Meter	$13/$55
Sony/HP	120 Meter(DDS-2)	$29/$139
4mm Cleaning Cartridge		$20/$95

8mm Data Carts		
Exabyte/Sony	112 Meter up to 5GB	$19/$90
Exabyte/Sony	160 Meter XL up to 7GB	$29/$140

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CMS	350MB Kit w/DT-350 Tape	$49

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Sony	QIC-WIDE QW3010XLF up to 850MB	$26/$125
Sony	QIC-WIDE QW3080XLF up to 4GB	$33/$160
3M\EXABYTE	DC2750/MC3000 (750MB)	$30/$145
EXABYTE	MC3000XL (1GB)	$39/$190
3M	MC3000XL (1GB)	$35/$168
3M	MC3000XL Formatted	$40/$190
Sony	QD2120 QIC80 up to 250MB	$22/$105
Sony	QD2120 unformatted up to 250MB	$19/$90
3M	DC2120 Ximat up 250MB	$17/$79
3M	DC2120XL Ximat up 350MB	$25/$120
Maxell	DC2120 unformatted tapes	$15/$69
Maxell	DC2120 QIC 80 formatted	$18/$85
Maxell	2120 Cleaning Kit	$22/$100
GIGATEK	DC2120 QIC80 up to 250MB	$15/$69
GIGATEK	DC2120XL up to 350MB	$22/$104

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Sony	QD6150 - 150MB	$17/$79
Sony	QD6250 - 250 MB	$23/$104
Sony	QD6525 - 525 MB	$29/$140
3M/Maxell	DC6150 - 150MB	$16/$75
3M/Maxell	DC6250 - 250MB	$22/$99
3M/Maxell	DC6525 - 525MB	$28/$135
GIGATEK	DC6150 - 150MB	$14/$65
GIGATEK	DC6250 - 250MB	$19/$90
GIGATEK	DC6525 - 525MB	$24/$109
3M/GIGATEK	Magnus 1.2 / DC9120 - 1.2 GB	$45/$215
3M/GIGATEK	Magnus 2.0 / DC9200 - 2.0 GB	$59/$285
Maxell	DC-9135 - 1.3 GB	$49/$235

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Verbatim/Maxell	230MB 512 bytes/sec	$47/$219
FUJITSU	230MB 512 bytes/sec	$55/$265
KOMAG/PHILIPS	230MB 512 bytes/sec	$33/$155
OMD-230HS	230MB Pinnacle Hi Speed Media	$39/$190

5.25" Optical Carts		
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Maxoptix	1.2G-512b/s or 1.3G-1024b/s-Poly	$149
HP	1.2G-512b/s or 1.3G-1024b/s	$109
OMD1200HS	Pinnacle 1.2G 512b Hi Speed (Universal)	$119
OMD1300HS	Pinnacle 1.3G 1024b Hi Speed (Mac)	$119

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540MB	63min Compact Disc Other	$12.50/60
650MB	74min Compact Disc Kodak	$16.99/$80
650MB	74min Compact Disc Sony	$15.99/$75
650MB	74min Compact Disc Other	$13.99/$68
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DB25F to DB25M	3/6/10/15/25ft	$4/5/7/8/10

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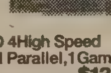

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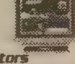
MX21F	21" 1600x1280 .28 up to 120Hz Flat scrn	$1699

NANAO



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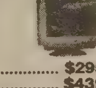

VS-6E	14"	.28	1024x768NI	$295
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VS-15GA	15"	.27	1280x1024 (OVC),w/built in speakers, Mic & Headphone Jacks	$519
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VS-20G	20"	.28	1600x1280,Dig Ctrl-VM	$1319
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BY WOODY LISWOOD

SmartSuite 3.0

A Look At The Latest Release Of Lotus's Complete Office Package

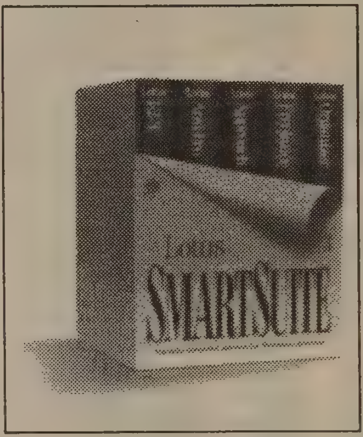
The Lotus SmartSuite 3.0 is six different software packages, arriving on a plethora of disks and occupying a large part of your hard drive. Each of the applications deserves a separate review, and over the years I've done major reviews of the three core programs—AmiPro, Freelance Graphics, and 1-2-3. This time, I'll just try to highlight the changes to SmartSuite and provide some opinions as to their effectiveness.

The SmartSuite consists of AmiPro 3.1, 1-2-3 Release 5, Approach 3.0, Freelance Graphics 2.1, Organizer 2.0, and ScreenCam, plus the handy SmartCenter feature. In the marketplace the competition is Microsoft Office with Word for Windows, Excel, PowerPoint, Access, and Microsoft Mail. Novell, by purchasing WordPerfect and Quattro Pro, is a late entry to the suite marketplace. On a product-to-product comparison there is little difference between Office and SmartSuite, while Novell's PerfectOffice lags behind in functionality. I plan to take a look at Microsoft Office later in the year.

The first thing you notice with this package is that the disks are simply labeled 1 to 27. That's it. As I write this there is no CD-ROM product available, but there should be. After running setup, you can customize the installation. It took about an hour to load all 93MB of the Suite. There is a minimal installation option that leaves out the demos, tutorials, samples, and whatnot, which, according to Lotus, takes about 34MB of space.

New And Improved Features

One of the best things about the SmartSuite is its use of SmartIcons. Each of the applications has a fully customizable icon bar. Because all of the applications use the same icon to do the same tasks, once you learn what an icon does you can count on it doing the same thing all the time. Each application also lets you customize the icon bars, so that they work the way you work, and lets you have multiple icon bars, each specialized for a particular activity. This feature, pioneered by Lotus in AmiPro, makes learning to use the SmartSuite applications easier than you might expect. Additionally, the pull-down menus are set up similarly in each application so that learning a new application means figuring out the new features, not relearning the basic functions for each application.



The SmartCenter is the most visible new feature in this iteration of the SmartSuite. It is a small icon bar that contains all of the application icons and floats on top of whatever program is in the foreground. This lets you switch instantly between applications and means you no longer need to use space on the SmartIcon bar to call up other SmartSuite applications.

SmartMaster templates are now available in Approach, 1-2-3, and Freelance. If your needs are covered by any of the templates you will not need to reinvent the wheel.

SmartAssistants are also found in 1-2-3 and Approach. Assistants, or what other vendors call Wizards, make learning the basics of the database or charting world much easier. They step you through building things like charts and reports. Of course, when they are finished, you can still customize the results to your exact needs.

One of the most intriguing applications in SmartSuite is ScreenCam. This multimedia-based program lets you record and play back what appears on your screen. Start it up. It records. Have a microphone? Talk and record. Stop when you want. Save it as a movie or an .EXE program to send to your associates. What good is this, you ask? Say you are working in 1-2-3. You are modifying a budget and are going to send in the new budget spreadsheet along with an explanation of your changes. ScreenCam lets you record the changes as a movie with a verbal explanation along the way. You send the new spreadsheet and the movie to your boss. The boss sees the changes, listens to your explanation before even loading the spreadsheet. This is great stuff. The only thing to watch for is space. These movies take up loads of disk space, so, like any director, think through your movie before you make it.

Approach 3.0

Version 3.0 of Approach turns this database into a competent application. While it does not have the programmability of Access, it can handle almost all business chores. It is fairly easy to use, especially for nonprogrammers. I've found that at Monarch Ski Resort in Colorado, where I do computer support, our computer users were able to use Approach with minimal help. Because of this ease of use, we will be eliminating all of our other database programs over the coming year.

I have a special salary survey application that I use to test databases. Approach can now do all but one function for that report. Everything else about my test, which involves some sophisticat-

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Adaptec 1542 C SCSI	165
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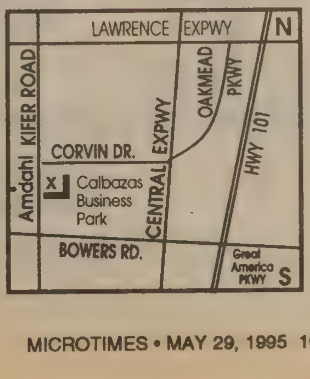

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ed reporting including multiple pages and analysis in the footer of each page and calculating simple and weighted averages within each page, can be done, and easily set up. What it still doesn't do is let me exclude a record from the detail lines on each page based on some criteria, then include that record in the footer for comparison purposes. This seems like simple logic to me, but it just doesn't exist in menu-driven databases. In fact, I still use the InfoStar database for this particular report, since it can perform that function, is menu-driven, and has had the feature since CP/M days. And InfoStar hasn't been available for over a decade.

Approach comes with over fifty database templates to help you save time. There is a notetab-type of interface. Clicking on a tab switches you from worksheet to form to crosstab or to whatever you have created. I find that this feature really helps my database work. Approach also integrates with Notes databases and allows you to create a form to view and update those databases. A powerful and mostly automatic crosstab function makes slicing, dicing, and analyzing your data a piece of cake. And if that doesn't work for you, link it to 1-2-3 and do it over there.

Lotus 1-2-3 Release 5

Release 5 is better integrated with other Lotus products. The ability to choose and use @ functions has been improved, along with better use of the SmartIcons. The integration with the Approach database is, I feel, one of the best features of this release. Now you can use 1-2-3 to analyze data and Approach to store and report on data, with just a couple of mouse clicks. This lets each application do what it does best. No longer do you have to force 1-2-3 into doing database work.

I really appreciate the continued use of the old / command menu structure. This structure is part of my psyche and I don't even have to look at the screen to know what I'm doing.

The improved charting function is more intelligent and looks better. Select a range to chart, click an icon, and get a chart. I still like the charting options in Freelance better, but in this release I find the 1-2-3 charts acceptable for many of my business reports.

A version manager also adds capability in the what-if arena. You can keep different sets of data which let you share, analyze, and compare with other folks in your workgroup.

A wide variety of maps is now included so that if your data can be divided into geographic areas, you can use the maps to show the results. For example, here at Monarch we can look at our attendance in the United States by linking the state data to the appropriate map.

Freelance Graphics

I didn't find many new features for this release, but then I did not expect to find any. Freelance is a mature product and does its job. What is new is the use of the SmartIcon set and the integration with all of the Lotus products, including Notes. Freelance still works with the SmartMasters, which are predesigned graphic presentations and include, within each design set, title pages, a selection of bulleted pages, and the ability to

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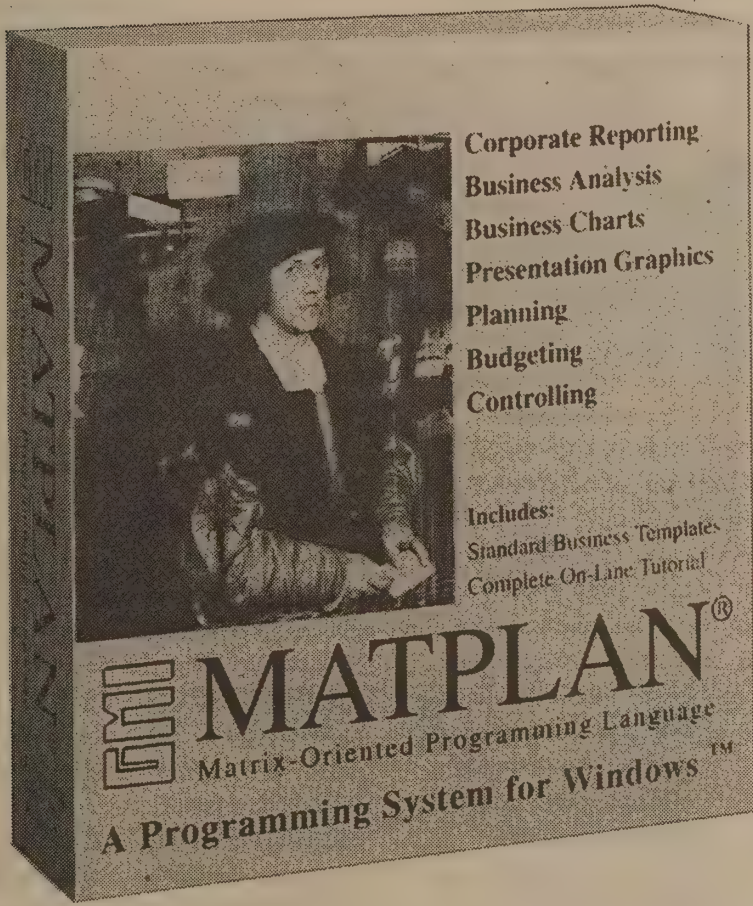
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Incorporating Online—Will It Save Legal Fees And Taxes?

A Look At The Current Industry Leader Of Do-It-Yourself Online Corporate Services, The Company Corporation

Corporate downsizing and layoffs have sparked a firestorm of new small businesses rising up throughout California—a sort of silver lining around the economic cloud. Pressure from customers and clients, and sometimes hazy assumptions about tax planning, have led many individuals and small entities to seek the legal blessing of incorporation. With legal and accounting costs being what they are, many choose the do-it-yourself path in hopes of saving on professional fees.

Software to help you incorporate has been around for years. Nolo Press, for example, the maker of self-help legal products, offers California Incorporator. A more recent and increasingly popular twist, online incorporation, takes you a step further, letting you file paperless paperwork.

As with home shopping, the speed and convenience of online incorporating is seductive, as is the sensation of power as one kicks off a financial empire with the click of a finger. From the comfort of your mousepad, online services are designed for instant gratification.

But does fill-in-the-blank legal software and service bring you the whole story? Incorporating online can be micro-wise, mega-foolish if it's done without input from a knowledgeable tax or legal advisor.

How It Works

The current industry leader of do-it-yourself online corporate services is The Company Corporation. Churning out corporations like Big Macs, and as readily accessible, gateways include CompuServe (Go Corp), Prodigy (The Company Corp), and the Internet (*http://incorporate.com/tcc/home.html*).

The online ads have enticing endorsements: "I always thought one needed an attorney to incorporate because it was some complicated, mysterious process. You said it was easy—and it was! It feels great to put the money in my pocket and not in some lawyer's."

> Superficially, any literate person can incorporate from a desktop, but the realities are far more complex.

To see what all the fun was about, I keyed in "Go Corp" and was beamed to Delaware, planet of interesting corporate law.

The main menu is inarguably well laid out. The entire routine is simple, intuitive, and painless. If you're the sort to run install.exe before ever contemplating the readme file, you'll find no unpleasant surprises here. The service is designed as you'd expect for those of us who hate to subsidize lawyers but can't be bothered to do our homework, either.

The first prompts I came across were straightforward signposts: Why Incorporate, 16 reasons to Incorporate in Delaware. But when it comes to filling in the blanks on the actual form, the user is cajoled to give right responses through intimation and steamroller hints, rather than elaborate help screens or explanations that might be construed as "legal advice."

Or, in case you didn't get the earlier subliminal messages, when it asks "Incorporate in the following state," the hint is, "The vast majority of our clients incorporate in Delaware." With hints like that, who needs professional advice?

Proceed With Caution

For a little heavy-handed balance, I consulted with George Berns, an Oakland attorney specializing in small business and labor law. "Almost all of the reasons for incorporating in Delaware relate to shareholder rights. For the individual or very small business, there are generally no legitimate advantages to be gained from incorporating in any other state. There certainly are minor costs and inconveniences."

Berns continues, "The only reason I can think of for an individual to incorporate in Delaware is to attempt to avoid California's tax laws. If you're doing business here, you cannot legitimately avoid California income taxes by incorporating in another state."

An independent contractor doing business only in California theoretically has the freedom to incorporate anywhere. Practical considerations, however, usually dictate forming the corporation in California.

There are real costs if another state is selected instead: the corporation will need to qualify as a "foreign" corporation in California, will be subject to two state taxing authorities (e.g.,

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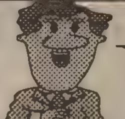

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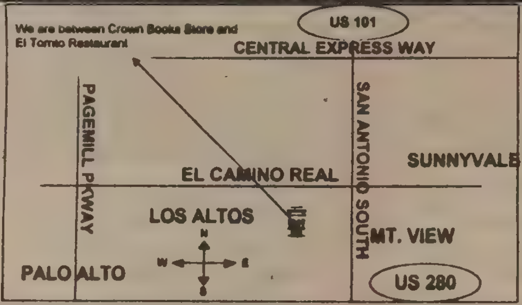

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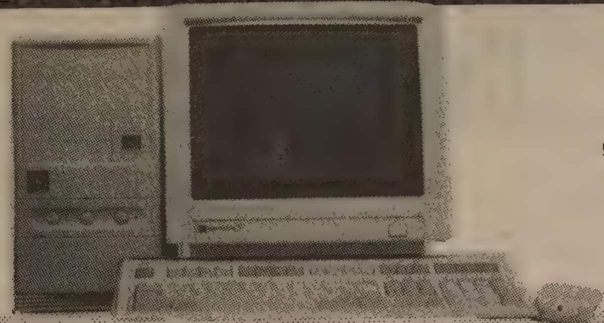

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The Great SATAN Scare

Once Again, Net Hysteria Proves Unfounded

On April 5, 1995, SATAN was unleashed on the Internet community.

SATAN is not the invention of some demonic cult, but is a tool to help system administrators analyze network security. It's a somewhat sinister sounding acronym for Security Administrator Tool for Analyzing Networks. SATAN was created by Dan Farmer and Wietse Venema, although Dan has gotten most of the publicity as the author of this tool. Wietse is the author of the popular UNIX tcp_wrappers security tool. Dan was the author of COPS, a UNIX security package.

Hype And Hysteria

Due to its somewhat sinister name, there was a great deal of hype and hysteria about SATAN before it was generally released—so much so that those offended or frightened by the name can actually change it from SATAN to SANTA (Security Analysis Network Tool for Administrators) with a script called "repent."

The hype about SATAN before its release made its way into many Internet mailing lists and even into the popular press. *Newsweek* had a short column on SATAN in its CyberScope page. This hype also led a lot of system administrators to examine SATAN who might otherwise not have, and led certain security advisory agencies to send out notices about problems that needed to be fixed. In these and other ways the hype may have led to increased security.

SATAN was seen by some as a sinister tool to help system crackers break into networks. Supposedly SATAN employed new and obscure ways of breaking into even well-secured networks. The tool was alleged to have powers beyond its capabilities by a good number of experienced Internet users. This was also the impression left in the popular press, as well. It was as if security tools did not exist before SATAN—which is decidedly untrue. All of the techniques SATAN employs can be found in other security tools.

Most of the security-related mailing lists on the Internet were also abuzz about SATAN before its release. Opinions about SATAN varied widely. Most of the discussion centered around whether the tool should be made publicly and freely available to all. While many folks said that decision was up to the authors of the tool, other people took a harsher and more restrictive stance. Their argument was that SATAN was so innovative and powerful in its approach to detecting network security problems, that its public availability threatened the security of any network on the Internet. Therefore the tool should only be made available to network administrators or not at all.

> All of the techniques **SATAN employs** can be found in other **security tools.**

What was curious about this debate is very few people knew what SATAN was capable of at the time. Almost all Internet users had not seen or tested SATAN. The speculation on its capabilities ran far beyond what it was really capable of doing.

We even got a small consulting contract to run SATAN against a company's network. The edict to test the network came down from the company's management which got alarmed about what they read about SATAN in the popular press. The rationale seemed to be that with SATAN loosed on the network, networks suddenly became more vulnerable to attack. Other companies have done the same thing in reaction to other security hype. The degree of hype and reaction to SATAN was way beyond anything that preceded it.

Reality Check

So what is SATAN really capable of? Does it embody secret algorithms and code which enable it to destroy the security of any network?

The answer is "no." SATAN is really an easy-to-use platform which lets you plug in a variety of network security modules. Its biggest innovation is its use of easy-to-use Web browsers as its operational front end. You can control and run SATAN from just about any Web browser.

Using a Web browser was quite inventive, since more and more people are familiar with the Web and its browsing interfaces. This lets just about anybody with Web experience operate SATAN. The use of a Web browser front end introduced a security bug in the first release of SATAN which has since been plugged in a subsequent release.

continued on page 247

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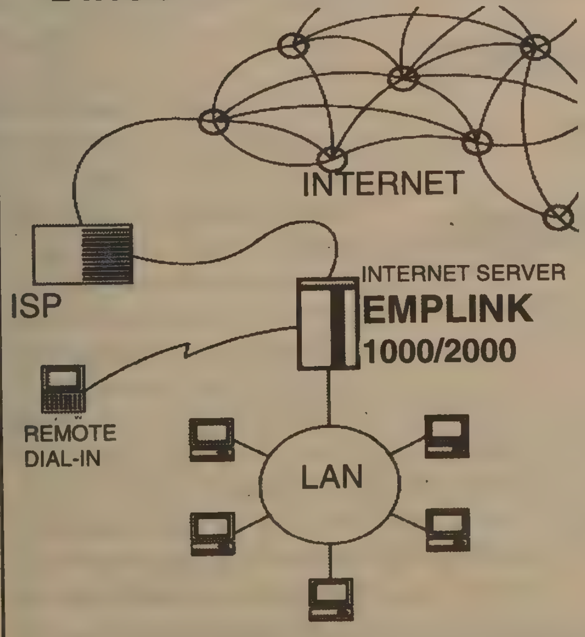

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ONLINE SERVICES • BY BILL GRAM-REEFER

Prodigy On The March

Windows-Only Upgrade Offers ISDN, Web Access, And More

Prodigy users should soon notice some exciting changes to the service jointly owned by Sears and IBM. Most remarkable will be the introduction of a new interface incorporating a total redesign, snappier response, and improved mail handling. Based on Prodigy's next-generation "P2" technology, the design enhancements will display content in hypertext markup language (HTML) to allow users to more easily navigate between Internet and Prodigy services.

Upgrade For Windows Only

This new interface enhancement will be available for Prodigy members with 4MB Windows-equipped computers beginning in June. This version, though, appears to be the little brother of a fancier P2 rollout originally expected to coincide with the arrival of Microsoft's Windows 95. As you know, Windows 95 is only now testing betas and will ship much later this year, so Prodigy seems to have down-shifted to this interim version for 4MB PCs in anticipation of Windows 95's actual appearance. Then expect to see an interface for 8MB Windows platforms, which should become increasingly common once Windows 95 and its memory requirements become a market reality.

The enhancement will be offered to users as an upgrade to current Prodigy service at no additional charge. Prodigy says it is also developing a P2-style upgrade for Macintosh.

ISDN Support

And, in association with Pacific Bell and other Regional Bell Operating Companies (RBOCs), Prodigy is the first commercial online service to offer subscribers in select areas access speeds up to 64Kbps over ISDN. To help users achieve these speeds, IBM is offering its ISDN-capable WaveRunner modem to subscribers at a specially discounted price of $495. An upgrade to a 128Kbps WaveRunner will be available later this year.

> **In association with** Pacific Bell and other Regional **Bell Operating Companies** (RBOCs), Prodigy is the first **commercial online service** to offer subscribers in **select areas access speeds** up to 64 Kbps over ISDN.

ISDN technology, slowly taking hold in the telecommunications market, achieves higher speeds than regular dial-up connections using regular digital-to-analog modems by transporting digital signals rather than analog signals. An ISDN line consists of three channels instead of one, enabling Prodigy members to download files while talking on the phone.

Users, however, must also have an ISDN line installed by Pacific Bell or some other RBOC. According to Pacific Bell's recently published *User Guide for ISDN*, pricing for Home ISDN will cost under $30 per month plus measured rate service at a penny-per-minute during local business hours and no charge on evenings and weekends. If ISDN is slow coming to your area, Prodigy also is upgrading its 28.8Kbps service throughout the US.

Web Browser

So what do you do with all of that speed? Why, surf the Net of course.

And to help users hang ten in cyberspace, Prodigy has announced enhancements to its Windows-based Web browser that over five hundred thousand subscribers have downloaded. Release 1.2e of the browser now includes adjustable fonts and color, plus an email link that lets mail be sent from anywhere within the browser. The browser now fully supports the use of forms and includes an enhanced scroll bar and online help.

Other new features include the optional ability to save large documents to disk rather than to screen. Global History and multiple hot list features let you keep track of where you've been and where you like to go.

continued on page 116

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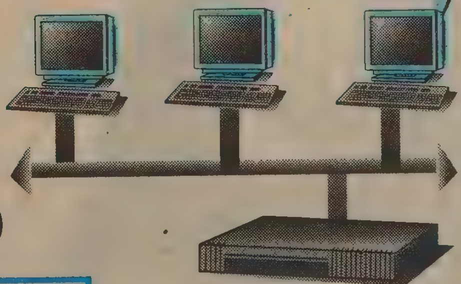

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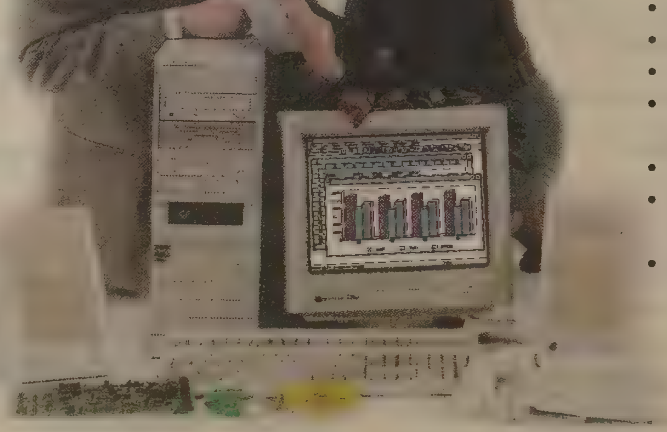

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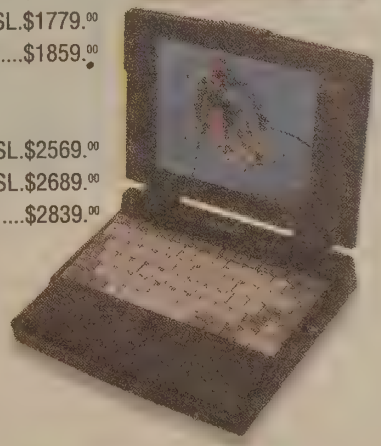

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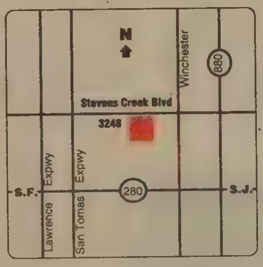

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Online Services *continued from page 112*

Perhaps the most important upgrade to this release, though, is the implementation of Netscape Security Support. This key feature will let users access commercial sites and conduct business, like transferring credit-card information, in a "secure" environment. Prodigy plans to support Macintosh subscribers with a Web browser sometime in 1995; perhaps before Windows 95 appears.

News Reader

At the same time, Prodigy has also released a new version of its popular Internet newsgroup reader. The new release includes two new features.

Advanced threading capability has been added, allowing the reader to display up to one thousand threads containing thousands of articles. This allows users to scroll through all requested articles at the click of a mouse, greatly reducing online connect charges. Threads are also sorted alphabetically, making it easier to find favorite subjects.

The new reader also now supports standard Windows control functionality. This allows users to select multiple articles or binaries for viewing and downloading. The updated newsreader will be downloaded to existing Prodigy members the next time they access Usenet newsgroups via Prodigy. New subscribers will automatically receive the enhanced version the first time they enroll.

Prodigy Wins Internet World Shootout

Meanwhile, Prodigy came out on top during a "shootout" held during April's Internet World exposition in San Jose, CA. During the contest, Andrew Kantor, editor of *Internet World* magazine, challenged representatives from America Online, CompuServe, and Prodigy to perform specific unrehearsed tasks involving Internet functionality, capabilities, and performance. Specifically tested were Internet mail, Gopher, newsgroups, Web browsing, support, pricing, and other categories.

Internet World then compared the results: Prodigy led with a total of 58.8, CompuServe placed 26 points, and America Online showed just 10.2. The full spreadsheet with all the scores and categories is available on Prodigy's AstraNet home page at *http://www.astranet.com* .

New Pricing

Also new to Prodigy is a low-cost subscription plan called the 30/30 Plan. Available now, subscribers can get thirty hours of monthly usage on Prodigy for $30 or one dollar per hour. Additional hours are $2.95 each. The $1/hr. rate includes access to all of Prodigy's services including news, stock quotes, airline ticketing, shopping, games, Internet email, bulletin boards, and chat. It also includes Usenet newsgroups and World Wide Web using Prodigy's own Windows-based Web browser. With the 30/30 Plan, one hour of connect time per day on Prodigy costs $30 per month. In comparison, CompuServe costs $44.45 and America Online $83.70 for the same amount of time.

In addition to the 30/30 plan, Prodigy also has a basic pricing plan of $9.95 a month for five hours' use, with additional hours priced at $2.95 each. Anyone who wants to try Prodigy and its Internet connection can call 1-800-PRODIGY to obtain free software and 10 hours to try the service. Prodigy software can also be downloaded directly from the home page cited above. ■

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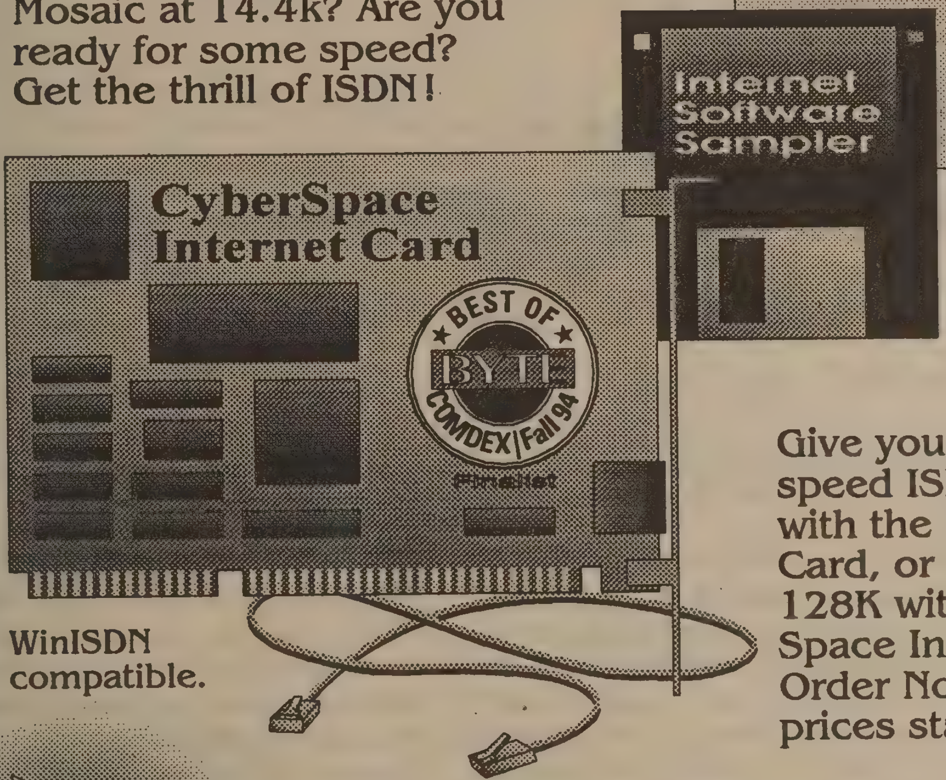
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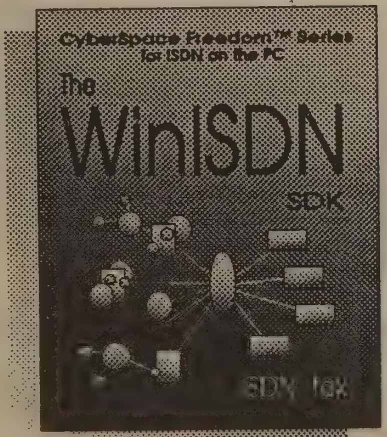
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Online Guide

BY CYNTHIA DYER-BENNETT

From The Fringe

An Experiment In Online Publication

Tustin Ellison didn't start out with the idea of creating a digital chronicle of the people he met when he drove the perimeter of the United States last fall. He just wanted to promote his commercial photography business.

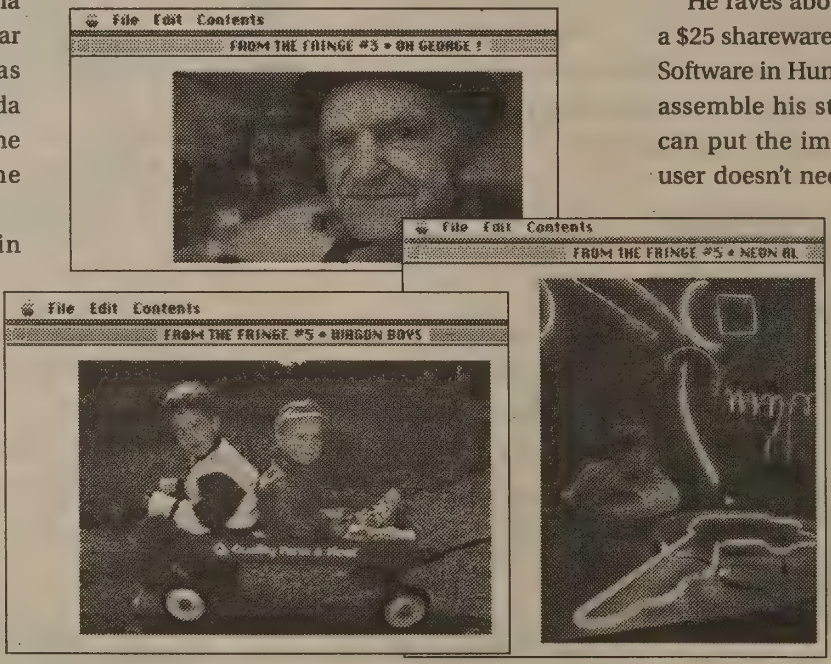
The trip took four months and put 17,000 miles on his Honda Civic's odometer. He lost a windshield to a piece of gravel outside Petaluma on the very first day of his trip. He lost his car radio to a thief in Washington, DC. He was forced to abandon his excursion to the Florida Keys due to tropical storm Gordon, which, he was told, would have blown his car off the causeway.

Ellison started his clockwise journey in September of 1994, heading northwest from his home in Pleasanton towards Highway 1. "I planned to take pictures at the four corners of the United States to show what I could do in different settings," he said.

He quickly changed his goal, however. "By the time I got to Washington State I realized I was gathering material for a book," Ellison says. He got his inspiration from a book called *Blue Highways*, William Least Heat Moon's narrative of his encounters with the people on the rural roads of America. What makes it innovative is Ellison's approach: The book is digital.

The Portable Darkroom

He was so excited about the shots he was getting that he didn't want to wait until he got back home to start working on the images, so he was glad he'd brought his darkroom with him in the form of his computer. Every time he hit a major city, Ellison got his film developed into slides, then selected his best shots to be scanned onto Photo CD. Then, "I'd put the CD in my computer in my motel room and do my darkroom work on the road," he explains.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Ellison is pleased with the flexibility he gets working with the Photo CD format. The graphic images on the discs can be expanded and compressed repeatedly without any degradation, so no matter how many times he accesses the file he doesn't lose any of the image. Another useful aspect is that the same photo is stored on the CD in five resolutions, from 72K to 18MB. The 72K resolutions are thumbnail-sized photos which can be used like contact sheets; the 18MB ones can be viewed full-screen and produce a photo-quality 8 x 10. Ellison can either browse the entire one hundred photos onscreen at the same time or do some fine-tuning on a single, high-resolution photo.

He raves about the properties of DOCMaker, a $25 shareware program from Green Mountain Software in Huntsville, Alabama, that he uses to assemble his stories. "The great thing is, you can put the images on a floppy and the end-user doesn't need to own this program to view the contents of the disk. If I'd created this book in PageMaker, for example, the person who bought the book would need to have PageMaker on his computer to see it," he said. People can just put the disk in the drive and double-click its icon to view Ellison's work.

Faces From The Fringe

He took thousands of photos on his trip, and has winnowed them down to the best one hundred for his book. He calls this work-in-progress *From the Fringe* because, he says, "first of all, these are people from the physical fringes of the United States, and also because a lot of these people have unusual

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From The Fringe *continued...*

occupations." Among those featured in the book are Dane Ledet, an alligator farmer in Houma, Louisiana, and Albert Kelso, a laconic old geezer who sells antique, horse-drawn potato pickers from his front yard outside Houlton, Maine.

So far, Ellison has completed seven of what he loosely calls chapters ("There is no real chapter format at this time other than what I can fit on a floppy disk"). Each chapter consists of six photos on a high-density disk. He expects to fill around twenty disks before the work is complete.

Each photo is accompanied by a three- to four-paragraph description that captures the essence of Ellison's encounters. His deceptively simple, straightforward writing style is the perfect contrast to his quirky photo images, which run the gamut from in-your-face realism to ethereal, other-worldly dreamscapes. His vignettes include characters like "Mom" Roark, a dowdy, middle-aged bartender in an economically depressed logging community in Washington, and Jerry Johnson, a lime-green-eyebrowed seventeen-year-old in Florida.

From the Fringe can only be viewed on a Macintosh at present, but Ellison hopes to be able to make it available to PC users soon. "I need to produce it on some sort of program like Adobe Acrobat that will read screen images over both platforms. Then all the end-user would need to have would be a freeware Acrobat reader to be able to read the disk," he says.

Once he is satisfied with the contents of each disk, Ellison uploads the 1MB storybook to his mail list on America Online. The people on his mail list are a varied group. "There are art directors, photo editors, and people who are just interested in the medium in general," says he. "Some are people who follow my work. There's even a guy in New Orleans who joined up after we met on my drive."

Digital Marketing: The Great Unknown

Ellison is looking into several possible ways to market his soon-to-be-finished book. He currently does not charge any fees to the people on his mail list for downloading, but he is considering the possibility as a way to sell his book once it's completed. One drawback, he says, is that this would limit his market—only AOL subscribers would be able to receive the photo images. "I can't send the photos, I can only send text to people who aren't on AOL."

Another alternative he's thought about is cutting a deal with AOL to help him with marketing. AOL could put a sampling of Ellison's work in a place like AOL Greenhouse, a virtual hothouse of product ideas. If subscribers liked what they saw, they could download the book, chapter by chapter. Each chapter would take fifteen or twenty minutes to download. AOL could charge the cus-

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DOCmaker
stand-alone document creator (shareware)
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EE Pro TP w/FLASH/5-Pk/80-Pk	116/462/1,670/5,918
EE Pro TP&BNC w/FLASH/5/20/80-Pk	126/532/1,987/7,039
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NF3500-F-1 FDDI EISA Fiber	1,230
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Transcend Enterprise Mgr for Windows	2,181
FRYE NetWare Mgmt 1st/Add Svr	337/277
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INTEL LanDesk Manager	1,047
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LanDesk Traffic Analyst	718
LanDesk OpenView for Windows	1,789
NOVELL Lanalyzer for Windows v2.1	1,100
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ARCserve v5.01 100/250 users	1,198/1,503
ARCserve v5.01 500/1000	2,551/5,842
Changer Option for v5.0/Stacker Option	456/470
PALINDROME Backup Director NLM 1 SVR	585
Network Archivist NLM 1 SVR	1,212
Archivist Autoloader Single/Multi-Drive	585/1,455
COLORADO Power Tape 1.1GB w/o Ctrl	696
Power Tape Int. 2GB SCSI Tape Drive w/Ctrl	1,065
Power Tape Ext-25 2 GB SCSI Tape Drive w/Ctrl	1,236
Power Tape 50-4 GB SCSI Tape Drive w/Ctrl	1,295
Power Tape Ext 50-4 GB SCSI Tape Drive w/Ctrl	1,555
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NetWare Connect 2-port w/Modem and Serial I/O	1,181
NetWare Connect 8-port w/Modem and Serial I/O	4,337
SHIVA Net Modem/E 28.8	1,537
Lanrover/2E Plus	2,501
Lanrover/E 3.5 8prt	3,847
Lanrover/E Plus Async 8prt w/o modems	5,179
Lanrover/E Plus 8-port v.34	7,898
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ISDN PC card w/o NT1/w NT1	388/543
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ISDN SOHO 4 users/unlimited	776/1,164
ISDN Remote Office 4 users w/NT1	931
ISDN Remote Office Unlimited w/NT1	1,318
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LAN2LAN Remote Office ISDN-BRI	1,412
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Penta Scanner/Compas Kit	2,706/3,967

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Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
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NetWare NFS Starter Kit	1,095
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MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
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CHEYENNE InocuLAN 20/250 workstations	326/655
InocuLAN Option 25/100/250/1000	133/190/260/325
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COREL Network (RAID/CDROM/OPTICAL sw)	420
DIRECT ACCESS Network Menu	425
FUNK App Meter	464
FRYE Early Warning System or Lan Directory	339
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
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SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

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ARTISOFT LANtastic 6.0 Network Starter Kit	244
LANtastic 6.0 Add-On Kit Coax/10BT	131
LANtastic 6.0 Software Single/5/10 User	99/354/637
LANtastic 6.0 Software 25/50/100	1,272/2,118/3,460
LANtastic Management Serv./Advan	144/578
Central Station NetWare	447
Noderunner/SI Coax or TP/Combo	109/129
Noderunner/SI Coax or TP (5 pack)	374
Lantastic for MAC	433
Lantastic for TCP/IP Single/5 Pk	220/883
CorStream 5/10/25 Users	699/1,362/2,209
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Groupware

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Server for OS/2/Win/SCO/AIX/SUN/HPUX	384
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Client Licenses 1/10/20	328/3,111/6,235
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EAGLE NMSL/C Mirror Server Link	806
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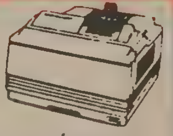

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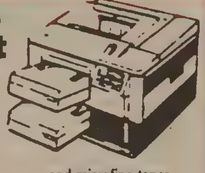

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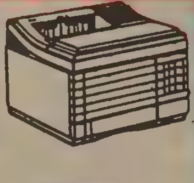

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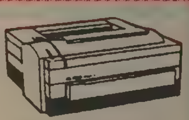

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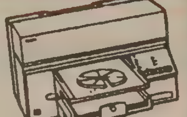

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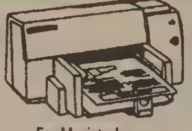

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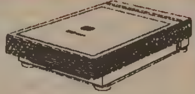

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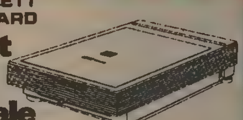

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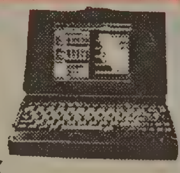

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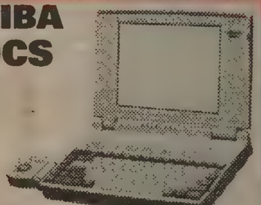

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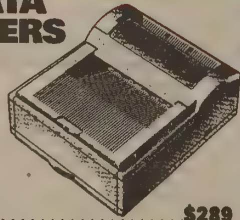

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From The Fringe *continued...*

Evolution Of A Digital Photographer

Tustin Ellison's interest in photography began during his adolescence in Pleasanton; his father gave him an old Polaroid, which he traded in for his first 35 millimeter camera. He and his childhood friend were fascinated with the trains passing through the area. "We spent a lot of the summer after we graduated from the eighth grade chasing trains on our bikes, taking photos," he recalls. "Western Pacific was running the last four F engines in the US at that time; we were trying to get pictures of them."

He studied photography at Cal Poly in San Luis Obispo and earned a degree in Art and Design in 1989. He was promptly hired by an East Bay newspaper as its commercial photographer. He stayed there for five years, covering disasters and sporting events, and shooting ads. At the same time, he was establishing himself as a freelancer, doing work for many major corporations including Clorox, Toyota, and 3Com.

He bought his first computer, a Mac Classic II, about two and a half years ago. Even then, he didn't consider the potential for digitization of his photographs. He used his computer to experiment with fonts as graphic elements and to create resumes.

About eighteen months ago Ellison saw the advantages of melding his love of photography with his interest in computers. The newspaper he worked for was forced to begin computerizing its photo department to reduce the number of chemical pollutants it used in photo processing. Once he started doing darkroom work digitally, Ellison was hooked. He now uses Adobe Photoshop the same way he used to use the darkroom, and has no qualms about letting the computer do what he used to do by hand. "The thing to do is dream up ways to do it that nobody has thought of before. I look at computers as a tool like a lens, a camera or any other tool. I look at it as an extension of what is in my imagination."

A second electronic book project is in the works. For his thirtieth birthday last spring, Ellison took a trip to Ecuador. He fell in love with the faces of the children who shined shoes in Quito, and snapped off roll after roll of film of them. He learned that these children all attend a Catholic-run school where they are taught not only the Three R's but job skills and financial responsibility, as well. "The school provides a trade school for teens," he says. "The kids keep the school's equipment maintained, they build the desks and chairs for the school in shop class." The children are also required to put a percentage of their shoeshine earnings into a savings account. When they graduate, they get the money they've saved, which gives them an economic foothold, a rarity for most Ecuadorians.

Ellison has completed a lot of the darkroom work on the photos he took there, and has even chosen a soundtrack of traditional Ecuadorian music for the CD slide show he envisions his project becoming. But he has been so busy trying to promote *From the Fringe* while maintaining his ongoing photography business that he has had to put it on the back burner. He hopes that if his first book takes off, interest will be generated in the second.

Now that the ability to combine text, photos, and sound is within his grasp, Ellison remarks, "I've become less of a photographer of a single image than a director of an entire vision."

—*Cynthia Dyer-Bennett*

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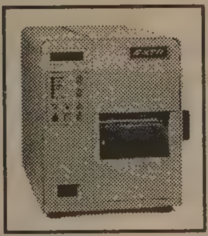

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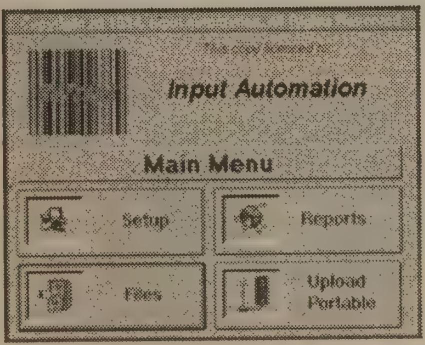

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From The Fringe *continued...*

tomers for the time it takes to download and kick back a percentage to Ellison.

Ellison says he has also considered selling the book as shareware, but sees this as the least likely option. "The chances for getting money back for that are slim to none."

Though he knows the Web is a potential avenue to explore in terms of marketing his book, he says he's waiting for AOL to get Web site access before he pursues that option. The truth is, he says, he is not particularly interested in the marketing aspect of the business. His commercial photography work keeps him busy, and he likes it that way.

Ellison sees big advantages to online publishing.

> The speed at which work gets from camera to customer is one positive factor.

He would be glad to have someone else take over the sales angle. "I'm trying to find someone who is going to want to market it and strike a deal with them," he says. "If a CD-ROM publisher contacts me and wants to incorporate my work into a book about the very edge of the United States, that's the direction I'm going."

He sees big advantages to online publishing. The speed at which work gets from camera to customer is one positive factor, and the low cost of publishing is another big plus. He also recognizes the ecological benefits. "I don't need to waste valuable resources if I publish online, I don't need ink or paper," he said.

He is not concerned that, in its present form, his book is a likely target of piracy. Due to the limited storage capacity of the floppies, his low-resolution photos cannot be expanded to full-screen viewing without pixelating, and will not print out well.

For those interested in owning hardcopy of his work, Ellison says he can create high-quality dye-sub prints from the higher-resolution versions he has stored on Photo CD. He is aware that piracy is still a possibility, but is philosophical about it. "There's not much anybody can do about that. The only thing I can do is have as many people as possible see my work so that, if somebody is using it as a copyright infringement, someone else will see that there's something wrong going on there, call me, and inform me of the problem." Ellison can be reached at *tustine@aol.com*. ■

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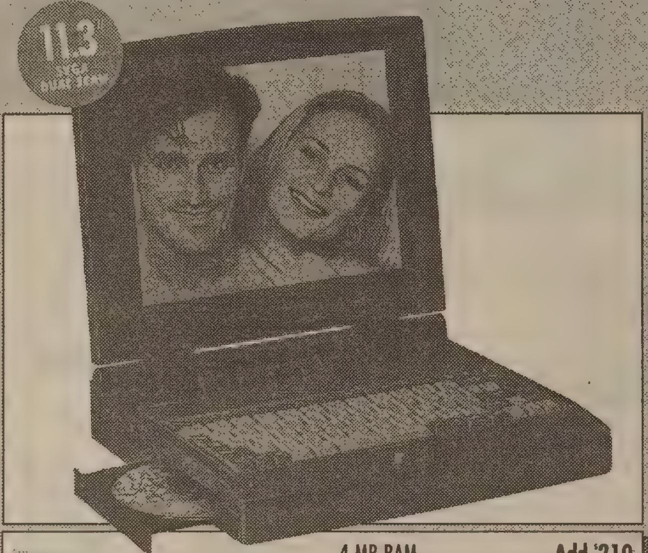

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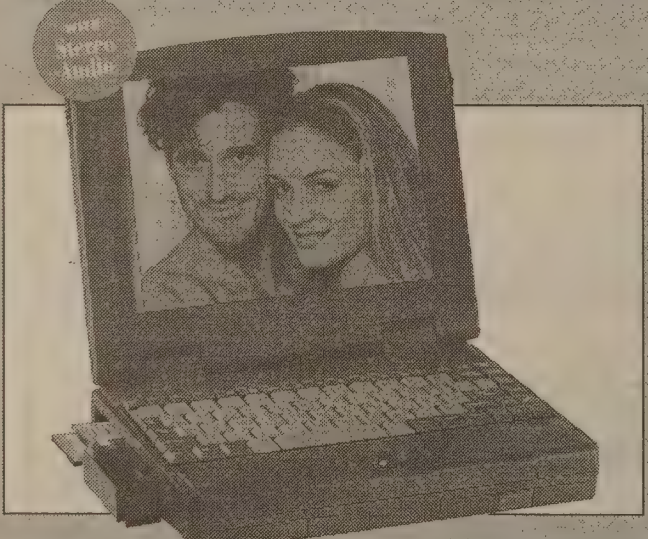

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ViewSonic 17" 1600x1280	810
ViewSonic 17G 1280x1024	690
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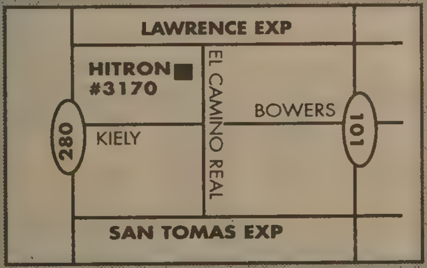

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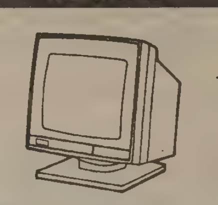

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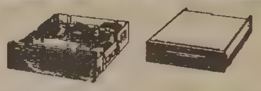

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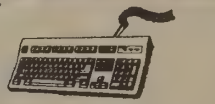

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Sporter Modem & Fax 14.4 (External)	$118
Sporter Modem & Fax 28.8 V.34 (Internal)	$228
Sporter Modem & Fax 28.8 V.34 (External)	$248

MICE

3-Buttons, Serial	$6.95

LOGITECH

2 Buttons Serial (OEM)	$14.95
Dexxa Serial OEM / Retail	$14.95 / $17.95
MouseMan Serial OEM / Retail	$22.95 / $27.95
MouseMan Bus (OEM)	$45.95
Portable Serial (OEM)	$34.95
First Serial (Retail)	$25.95
First TrackBall Serial (Retail)	$44.95
TrackMan Combo Serial (Retail)	$74.95
TrackMan Voyager Serial (Retail)	$64.95
CyberMan 3D Controller (Retail)	$55.95
WingMan Joystick	$29.95
WingMan Joystick Extreme	$49 95

Microsoft

Microsoft Serial Mouse (Ergonomic)	$24.95
Microsoft PS-2 Mouse (Ergonomic)	$45.95
Microsoft Bus Mouse (Ergonomic)	$59.95

ACCESSORIES

Colorado Tape Backup Solutions

Colorado 250Mb Tape Back-up (Retail Box)	$125.95
Colorado 350Mb Tape Back-up (Retail Box)	$165.95
HP-51640 Series (Magenta, Cyan, Yellow, Black)	$24.95
CPU Cooling kit w/ heatsink & fan	$4.98
CPU Cooling Kit w/ heatsink & fan (All Pentium)	$5.98
CPU Cooling kit heatsink & fan (Good Quality)	$6.98
CPU Cooling Kit heatsink & fan (Good Quality)	$13.98
Speaker 4W / 25W / 80W	$6 / $25 / $45
MS-DOS 6.22 w/ System only	$45
Windows 3.11 w/ System only	$55
Windows 3.11 for WorkGroup w/ System only	$65

YAMAHA

Yamaha 3W (YST-M5)	$48
Yamaha 10W (YST-M10)	$78
Yamaha 25W (YST-MSW10)	$158
Yamaha 25W (YST-SS510)	$198
Yamaha 25W (YST-SS1010)	$228

CREATIVE

CREATIVE LABS, INC.

Sound Blaster Pro Value Edition (Retail)	$73
Sound Blaster 16 Basic (OEM)	$78
Sound Blaster 16 MCD (OEM)	$88
Sound Blaster 16 MCD w/ ASP (Retail)	$163
Sound Blaster 16 SCSI-II w/ ASP (Retail)	$193
Sound Blaster AWE 32 Value Edition (Retail)	$168
Sound Blaster AWE 32 (Retail)	$268
Sound Blaster Value CD	$168
DigitalSchool House	$228
Multimedia Home Office 4X (Retail Package)	$428

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PACKAGE 1 SYSTEM

486 VLB Series

- ☑ Motherboard w/ CPU (256K Cache)
- ☑ 4Mb Ram installed
- ☑ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ Window Accelerator VLB w/1Mb
- ☑ 14" Super VGA Color Monitor (1024x768) .28 NI
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watts Power Supply
- ☑ 3 Button Serial Mouse

AMD 486DX2-66	**$928**
AMD 486DX2-80	**$938**
AMD 486DX4-100	**$958**
Intel 486DX2-66	**$958**
Intel 486DX4-100	**$1,028**

PACKAGE 2 SYSTEM

486 VLB Series

- ☑ SIS-471 Motherboard w/ CPU (256K Cache)
- ☑ 4Mb Ram installed (72-pin)
- ☑ EIDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Spider+ Window Accelerator VLB w/1Mb**
- ☑ **14" Acer 34T SVGA Color Monitor (1024x768) .28 NI**
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watts Power Supply
- ☑ **Logictec 2 Buttons Serial Mouse**

AMD 486DX2-66	**$968**
AMD 486DX2-80	**$978**
AMD 486DX4-100	**$998**
Intel 486DX2-66	**$998**
Intel 486DX4-100	**$1,068**

PACKAGE 3 SYSTEM

486 VLB / PCI Series

ASUS®

- ☑ Asus Motherboard w/ CPU (256Kb Cache)
- ☑ 4Mb RAM Installed (72-pin)
- ☑ IDE PCI Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Spider Tarantula Lite PCI w/ 1Mb**
- ☑ **15" Acer 56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watt Power Supply
- ☑ **Microsoft Ergonomic Serial Mouse**

AMD 486DX2-66	**$1,118**
AMD 486DX2-80	**$1,128**
AMD 486DX4-100	**$1,158**
Intel 486DX2-66	**$1,148**
Intel 486DX4-100	**$1,218**

PACKAGE 4 SYSTEM

Asus Pentium PCI Series

ASUS®
pentium
PROCESSOR

- ☑ **Asus Triton Motherboard w/ CPU (256Kb Cache)**
- ☑ 8Mb RAM Installed (72-pin)
- ☑ EIDE Controller PCI 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Diamond Stealth 64 DRAM PCI w/ 1Mb**
- ☑ **15" Acer56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ **Keytronic 101 Keys Enhanced Keyboard**
- ☑ **Super Mini Tower Case w/ 230 Watt Power Supply**
- ☑ **Microsoft Ergonomic Serial Mouse**

Intel P5-75MHz	**$1,598**
Intel P5-90MHz	**$1,718**
Intel P5-100MHz	**$1,828**

PACKAGE 5 SYSTEM

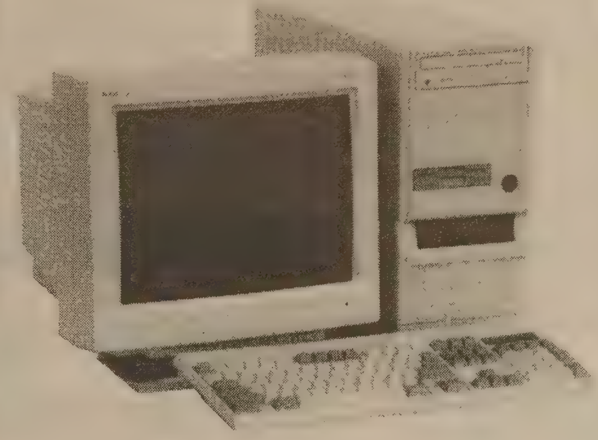
Intel Pentium PCI Series

intel.
pentium
PROCESSOR

- ☑ **Intel Triton Motherboard (256Kb Cache)**
- ☑ 8Mb RAM Installed (72-pin)
- ☑ EIDE Controller PCI 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Diamond Stealth 32 PCI w/ 1Mb**
- ☑ **15" Acer 56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ **Keytronic 101 Keys Enhanced Keyboard**
- ☑ **Super Mini Tower Case w/ 230 Watt Power Supply**
- ☑ **Microsoft Ergonomic Serial Mouse**

Intel P5-75MHz	**$1,598**
Intel P5-90MHz	**$1,718**
Intel P5-100MHz	**$1,828**

486 MULTIMEDIA SYSTEM



- ✱ SIS-471 MOTHERBOARD W/ CPU (ZIF SOCKET)
- ✱ 256K CACHE (EXPANDABLE TO 512KB CACHE)
- ✱ **8MB RAM INSTALLED (72-PIN)**
- ✱ IDE CONTROLLER VLB 2HD & 2FD W/ 2S, 1P, 1G
- ✱ FLOPPY DRIVE 1.44MB
- ✱ **HARD DISK 540MB IDE 12MS**
- ✱ **SPIDER+ 32 VLB WINDOWS ACCELERATOR W/ 1MB**
- ✱ **15" ACER 56L SVGA MONITOR (1024x768) .28 NI**
- ✱ 101 KEYS ENHANCED KEYBOARD
- ✱ MINI TOWER CASE W/ 230 WATTS P.S
- ✱ **MICROSOFT ERGONOMIC SERIAL MOUSE**
- ✱ **TEAC 55A QUAD SPEED CD-ROM DRIVE**
- ✱ **SOUND BLASTER 16-BIT SOUND CARD**

AMD 486DX2-66	$1,488
Intel 486DX2-66	$1,528
AMD 486DX4-100	$1,528
Intel 486DX4-100	$1,588

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Web Page Listings

Looking for beaches to Netsurf? Herewith we present an assortment of cool, interesting, and informative Web sites to tickle your fancy and stimulate your mind.

3Com Corporation on the Web
http://www.3com.com New product and service information from 3Com, featuring information on adapters, hubs, and internetworking products. [Exp. #139.]

24-Hour Recorded Job Lines For The San Francisco Bay Area
http://www.webcom.com/~rmd/bay-area/joblines.html Listing of jobline numbers. Also, pointers to other local employment resources and online job listings. [Exp. #140.]

Access Monterey Peninsula!
http://www.mty.com Access Monterey! features extensive information for the Monterey Peninsula and sponsors a weekly trivia contest. [Exp. #140.]

Adult CD-ROM Outlet
http://www.webcom.com/~dml/nubody/nubody.html The best in mail-order Adult CD-ROMs with pictures and free catalog. 18+ only. [Exp. #142.]

Aimnet Corporation
http://www.aimnet.com Prices and services for Aimnet, an ISP for the Bay Area and Silicon Valley. [Exp. #139.]

The Aloha Dateline
http://users.aimnet.com/~ayl/aloha.htm "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #142.]

Altera Corporation
http://www.altera.com Company/product information, job opportunities for Altera (NASDAQ: ALTR), leader in high-performance programmable logic devices and CAE tools. [Exp. #142.]

American Bar Association
http://www.abanet.org General facts and resources on the law, continuing legal education courses and requirements, ABA info. [Exp. #141.]

American Communications Association.
http://www.uark.edu/depts/comminfo/www/ACA.html For those interested in communication research, communication law, freedom of information, free speech, First Amendment. [Exp. #141.]

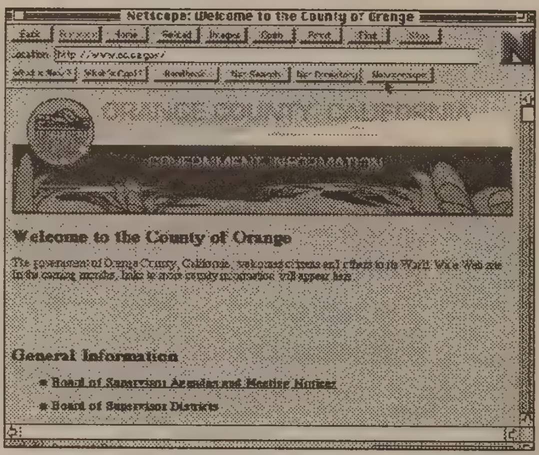
AP Research
http://www.apresearch.com Market research reports and consulting services for PC cards (PCMCIA). [Exp. #141.]

Art & Artist Network
http://voyager.via.net/netbiz/artist.html International directory of artists, art galleries, and art-related services. [Exp. #141.]

Astrology by Moonlight
http://voyager.via.net/netbiz/astrol.html Monthly personal horoscopes and astrological information. [Exp. #141.]

Astro-Temp
http://voyager.via.net/netbiz/atemps.html High-paying "temp" jobs available now by astrological sign. [Exp. #141.]

The Athlete's Diary
http://alumni.caltech.edu/~slp/tad.html The Athlete's Diary for Windows, Mac, and DOS—complete information and full-featured demo copies. [Exp. #140.]

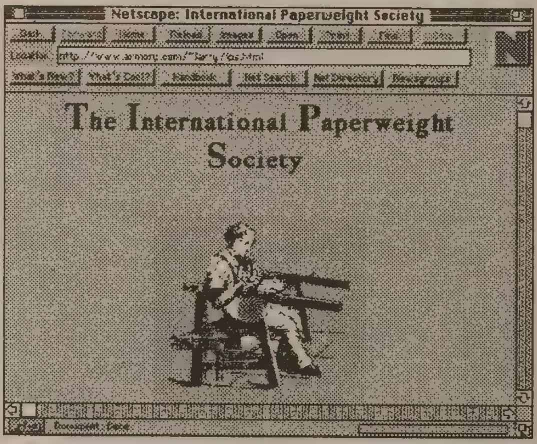

Netscape: Welcome to the County of Orange

Location: http://www.oc.ca.gov/

Welcome to the County of Orange

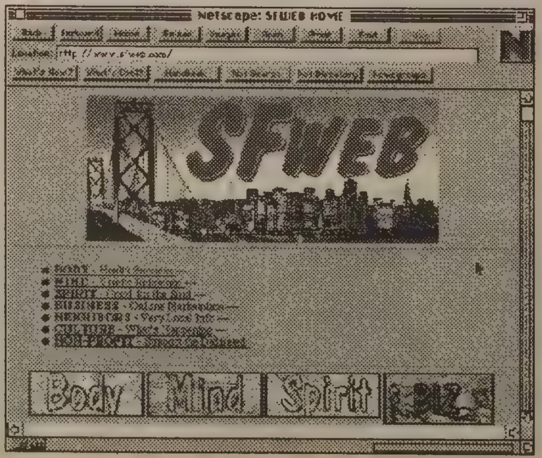
General Information

- Board of Supervisors Agendas and Meeting Notices
- Board of Supervisors Districts


Netscape: International Paperweight Society

Location: http://www.armory.com/~larry/ips.html

The International Paperweight Society


Netscape: SFWEB HOME

Australian Embassy
http://www.aust.emb.nw.dc.us General background on Australia, US-Australia trade, the defense relationship, and answers to frequently asked questions. [Exp. #140.]

Azule of Saratoga, Florist
http://www.portal.com/~jdoll/joes/azule Say it with flowers! Order direct via the Net. We ship by wire worldwide. [Exp. #139.]

BahnWare
http://www.bahnware.com/bahnware BahnWare develops WWW solutions for business marketing, distributed engineering, and personal use. Magellan GPS Systems WWW site. [Exp. #139.]

Bay Area Real Estate Network
http://www.dnai.com/~ted An excellent resource for buyers and sellers in the Bay Area! [Exp. #140.]

Bay Area Transit Information Project
http://server.berkeley.edu/Transit/ Provides up-to-date public transit information for the San Francisco Bay Area. [Exp. #140.]

BayNet Real Estate
http://www.baynet.com/re.html The Bay Area real estate site. Enter ads for free, search through hundreds of listings. [Exp. #141.]

Best Internet Communications, Inc.
http://www.best.com Internet service provider information. [Exp. #138.]

Bill's House of Financial Independence
http://www.vpm.com/self-help Providing business opportunities for the beginner and seasoned pro. For as little as $20. [Exp. #142.]

Binary Services Solutions
http://www.kaiwan.com/~npham Provider of Internet home page publishing, FoxPro and C++ business applications. Free initial consultation. [Exp. #142.]

BizInfo Advertising And Marketing Resource Center
ftp://ftp.crl.com/users/ro/csharrow/bizinfo.html [Exp. #140.]

Black Data Processing Associates
http://www-leland.stanford.edu/group/bgsa/bdpa/bdpa.html National network of DP professionals, educators, students, and vendor reps. [Exp. #140.]

Bob Bickford's Home Page
http://www.well.com/Community/rab/index.html The still-evolving home page of Bob Bickford, Professional Wild-Eyed Visionary. [Exp. #138.]

BookNet
http://www.armory.com/~timeline/SCbooks.html Santa Cruz County bookstore catalog. [Exp. #140.]

Buzznet Magazine
http://www.hooked.net/buzznet An SF-based online cultural Web magazine capturing colorful, fresh images, words, and sounds constantly. [Exp. #141.]

Web Page Listings *continued...*

The California Libertarian Party
http://www.lp.org/lp/ca/lpc.html [Exp. #138.]

Career Taxi
http://www.iquest.net/Career_Taxi/taxi.html A forum for the hottest companies to present their home pages and their employment opportunities. [Exp. #139.]

CDworld: Largest Internet Discount Music Store
http://cdworld.com Discount music store with over 100,000 major and independent label music CDs and videos. Ship worldwide. [Exp. #141.]

CGC Polar Sea
http://www.compumedia.com/~jef Extensive graphics covering last summer's expedition to North Pole and latest Deep Freeze to Antarctica. [Exp. #141.]

Clocks & Time
http://glen-ellyn.iit.edu/~clocks/clocks/ clocks.html Over 200 pages: clock, watch collecting, repair, sundials, time standards: organizations, museums, publications, and software. [Exp. #140.]

The (Consumer Or Business Product And Service) Idea Factory
ftp://ftp.crl.com/users/ro/csharrow/ideas.html Bold ideas about marketing, new products or services, product improvements, clever distribution, hot promotions. [Exp. #140.]

Coolware's Place on the Internet
http://none.coolware.com/ Coolware hosts *Good Medicine* Magazine and the electronic Job Guide. [Exp. #138.]

Cool Web Page
http://www.aimnet.com/hia/pcr/home.html For thought-provoking content. [Exp. #139.]

County of Orange
http://www.oc.ca.gov Information on the Orange County board of supervisors, meetings, and press releases. [Exp. #142.]

Cryptography, PGP, And Your Privacy
http://draco.centerline.com:8080/~franl/crypto.html Links to many of the Web's resources on cryptography, PGP documentation, privacy-related Web links. [Exp. #140.]

CyberLaw™
http://www.portal.com/~cyberlaw/ Educational service on computer law for computer users published monthly, including CyberLaw™ and CyberLex™ archive. [Exp. #141.]

Cyno Technologies
http://www.cyno.com/cyno/ Cyno Technologies, Inc. provides computer user authentication systems, including solutions for enhanced remote access security. [Exp. #142.]

DCI
http://www.DClexpo.com Get the latest information on high-tech conferences and expositions like Web World, EMail World, and more. [Exp. #140.]

Democratic Party Home Page
http://www.webcom.com/~digitals A place to find information on Democratic officials, organizations, and candidates. [Exp. #141.]

Disinfectant 3.6
ftp://ftp.acns.nwu.edu/pub/disinfectant/disinfectant36.sea.hqx The new release of the free anti-virus utility for the Mac. Recognizes new clone of nVIR B. [Exp. #142.]

Easy Resume™
http://www.dnai.com/~lji Free resume outline and sample resume for software developers. [Exp. #140.]

eCenter
http://www.ecenter.com Putting businesses on the WWW in Virtual Trade Shows, general categories, email paging, business information. [Exp. #141.]

EDGE Home Page
http://www.well.com/www/edgehome Home page of EDGE, leading interactive entertainment publisher of *EDGE* magazine and EDGE games. [Exp. #141.]

The electronic Gourmet Guide
http://www.deltanet.com/2way/egg The eGG is the Internet's first full-color food magazine featuring interviews, articles, recipes, columns, news, and links. [Exp. #138.]

The Electronic Telegraph
http://www.telegraph.co.uk Britain's first and best online daily news source—a crossword too. [Exp. #140.]

Employment Today
http://204.188.129.2/netbiz/employ.html High-paying permanent and temporary jobs available now, plus agency listings. [Exp. #142.]

Endeavour Travel
http://www.anzac.com/endnb/endvr.html Information and discount travel packages to Australia and New Zealand. [Exp. #142.]

Enterzone
http://enterzone.berkeley.edu/enterzone.html Noncorporate, professional Web zine. Enterzone is a hyperzine of writing, art, and new media. [Exp. #140.]

Enzian Theater
http://magicnet.net/enzian/ Home page of Enzian Theater, film center for Central Florida: special event info, film-related links. [Exp. #141.]

FaxBox Network
http://voyager.via.net/netbiz/faxbox.html How to have your own fax-on-demand box and make money. [Exp. #142.]

Film Analyst On-Line
http://www.kaiwan.com/~stussy/taussig/film01.html A thoughtful analysis of popular and classical movies and the impact on popular culture. [Exp. #142.]

First Virtual
http://www.fv.com/access/by-seller/Internet_Info "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

FLASHERS
http://www.armory.com/~grape/ Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #142.]

Flash Sheridan's Newton Software
http://www.rahul.net/flasheridn/ Newton Register allows users to pay for shareware via email. Disabler is a startup manager. [Exp. #139.]

Focus on Africa
http://login.eunet.no/~presno/sample4.html Connectivity issues, sources of information about Africa for various application (news, Web, and gopher servers). [Exp. #138.]

Fountainhead Internet Systems WWW Site
http://www.earthlink.net/~fountainhead Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #141.]

Four Leaf Clover
http://204.188.129.2/netbiz/fourleaf.html How to play the Canadian lottery and make money every month. [Exp. #142.]

Future New$
http://[illegible] com/wall-street Newsstand focused exclusively on forecasting Wall Street and global financial markets. [Exp. #138.]

Galaxy Entertainment Network
http://www.power.net/galaxy Providing entertainment information, showcasing worldwide talent, business opportunities, programming, and weekly Internet funnies. [Exp. #142.]

The Gallery of Advertising Parody
ftp://ftp.crl.com/users/ro/csharrow/parody.html The place to find the "ads we all love to hate" as well as parodies of these types of ads. [Exp. #140.]

Girvies Davis Home Page
http://www.mcs.net/~bkmurph/girvies.htm Home page of Girvies Davis, Illinois death row inmate. Clemency petition, articles, "evidence," pictures, audio, more. [Exp. #142.]

Global Campus
http://www.csulb.edu/gc/ Distributed database containing new media for use in enhancing learning and teaching. For educational use. [Exp. #140.]

Global Communications Group
http://www.globalcom.com/global Internet consulting, training, seminars, Web page production. Ten years Internet R&D experience. [Exp. #140.]

Global Futures Foundation
http://www.quiknet.com/globalff/globalfu.html Environmental Web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #142.]

GolfWeb
http://www.golfweb.com Complete source for everything related to golf on the WWW: results, statistics, live reporting, course information, more. [Exp. #141.]

Graffiti Wall
http://www.lh.com/cgi-bin/wall Hot tips and interesting places on the Web. Check it out or share some of the places you have found. [Exp. #140.]

Grant Tracker Home Page
http://www.rahul.net/kendric [illegible] that keeps researchers from overspending their research grants. Download demos: DOS, Win, Mac. [Exp. #141.]

Greenpeace Climate Homepage
http://www.greenpeace.org/ Berlin Climate Summit info, FAQ on climate change, links to other climate info on the Net, more. [Exp. #141.]

Harmony Central Music Pages
http://harmony-central.mit.edu/ Resources and links for the musician, including guitar, bass, effects, MIDI, keyboards, software, and more. [Exp. #142.]

Hawaii Made Easy!
http://www.aloha.com/~optunehi Learn about one of the healthiest states, and one of the safest. Many businesses and jobs. [Exp. #139.]

HOMEPAGE.HTML
http://www.hooked.net:80/users/tpitre/homepage.html Personal page for Pitre and MSRI, Inc. [Exp. #141.]

Home Pages, Inc.
http://www.homepages.com/ A full-service WWW authoring firm and creators of the World Wide Yellow Pages™ at *http://www.yellow.com/*. [Exp. #140.]

Homes & Open Houses
http://openhouses.com Your comprehensive source for real estate information on the Internet. [Exp. #140.]

The Hong Kong Business Directory
http://FarEast.Com/HongKong/directory.html Source products, find manufacturers, locate importers and exporters, find hotels, services, suppliers, buyers, even individuals in Hong Kong. [Exp. #138.]

Hooked
http://www.hooked.net Hooked is an Internet service provider using the amazing Internaut software. [Exp. #139.]

HTML To ICADD/Braille
http://www.ucla.edu/ICADD/html2icadd-form.html This form allows valid HTML to be transformed to ICADD and/or Braille for print-impaired users. [Exp. #142.]

I-Comm: Web [illegible] Without SLIP/PPP
http://www.best.com/~icomm/icomm.htm I-Comm is a full-featured graphical WWW browser which doesn't need SLIP/PPP connections. [Exp. #141.]

Imago Dei
http://www.art.net/Studios/Visual/Jaxun/homepage.html An all-digital incarnation of one computer support tech's emerging Muse... [Exp. #141.]

Impact Online
http://www.internex.net/impact Interactive access to nonprofit organizations, topical issues, and information on a range of social issues. [Exp. #142.]

INDEX.HTML
http://www.manual3.com/manual3 Manual 3, Inc. is a 13-year-old technical writing firm serving the technology industry. [Exp. #140.]

IndustryNET
http://www.industry.net Keeping in touch with the computer industry. Product and service information including local suppliers. [Exp. #140.]

Infolink Information Center
http://www.infolink.net/ Fastest-growing Internet

Web Page Listings *continued...*

service provider in Hong Kong. See how to get connected in Hong Kong. [Exp. #139.]

INFOWERKS
http://www.best.com/infowerk/ Cool students/Web consultants page, artistic, interesting connections. [Exp. #139.]

The Institute for Global Communications Progressive Directory
http://www.igc.apc.org [Exp. #138.]

Intelligent Media
http://smartworld.com/intmedia Full-service interactive multimedia production company, service bureau. [Exp. #141.]

The Interactivist
http://199.172.178.200 A place that facilitates Internet social education and activism. Also the home of Free Burma. [Exp. #141.]

Interactivist/Go Digital Online
http://www.[illegible] [illegible] *Digital Interactive Magazine*'s home page: preview of CD-ROM, additional materials, subscribe, send stuff for inclusion, etc. [Exp. #141.]

Internal Revenue Service
http://www.ustreas.gov/treasury/bureaus/irs/irs.html Provides tax forms, answers to frequently asked questions, where to get more help, and where to file. [Exp. #139.]

International Netsuke Kenkyukai Society
http://www.hooked.net:80/users/yukiyama/ Information on Netsuke Kenkyukai Society and collecting netsuke (Japanese antique toggles). [Exp. #141.]

International Paperweight Society
http://www.armory.com/~larry/ips.html A nonprofit organization dedicated to furthering the awareness of fine glass paperweights. A Mecca of information. [Exp. #142.]

Internet Health Resources
http://www.ihr.com Extensive and practical health resource information for Internet users. [Exp. #142.]

Internet Literacy Consultants
http://www.matisse.net We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #139.]

The Internet MainStreet
http://www.mainstreet.net ISDN and leased line Internet provider for Silicon Valley. Cool eclipse photo. [Exp. #140.]

Internet Presence Providers
http://www.internex.net/ipp Providing business with complete Web site design. Focusing on real estate, art, investments, and online malls. [Exp. #140.]

Internet Roundtable Society
http://www.IRSociety.com Providers of business WWW services: home pages, promotion, etc. [Exp. #139.]

InterNex•Tiara
http://[illegible]nex.net High-speed ISDN Internet access provider. Provide information about ISDN, access options, products, and services. [Exp. #140.]

InterNotes
http://www.tbo.com/notes.html [Exp. #138.]

InVision Consulting
http://www.iconsulting.com/ Leading solution provider of Web page development, Internet connectivity, training, etc. We do it all! [Exp. #142.]

IRIS Media Systems
ftp://ftp.netcom.com/pub/rl/rlai/www/home.html Home of Xantippe—The Information Structuring Workbench, a Windows hypertext/hypergraphics authoring environment for HTML files. [Exp. #141.]

ISDN*tek
http://www.isdntek.com PC-based hardware for high-speed ISDN access. [Exp. #142.]

Japanese Underground Technology
ftp://ftp.netcom.com/pub/ge/geoi310/homepage/a6.html [Exp. #139.]

Japan Summer Program
http://www.kaiwan.com/~stussy/japan95/japan11.html Information about studying photography or the Japanese language in Japan during the summer of 1995. [Exp. #142.]

Jeff's Homepage—The Quam
http://www.emf.net/~quam Jeff's Homepage and link to the Pirate Squid Club. Lots of useless nonsense. [Exp. #141.]

John Perry's Home Page
http://www.perry.com/ I'm B1FF!!! (a film festival), The Liberal Materialists (my band), photos, poetry, and much more. [Exp. #139.]

Jow's trueSpace Home Page
http://csual.cs.ucla.edu/truespace Provides images, utilities, and links of interest to the Caligari trueSpace user. [Exp. #140.]

Karma Kagyu Buddhist Cyber Center
http://144.92.74.130 Introducing Karma Kagyu lineage of Tibetan Buddhism, main teachers, teaching and meditation schedules, presenting quarterly magazine. [Exp. #142.]

KBBS Online
http://kbbs.kbbsnet.com Interesting Web site links, WWW business marketing info, online service info. [Exp. #142.]

Kerry's Connection
http://www.crl.com/users/~zallar/index.html Comedy Impressions—live and voice mail, QB Experience musical group, SRV School of Performing Arts. [Exp. #142.]

LatinoWeb
http://www.catalog.com/favision/latnoweb.htm Provides a platform for Latino organizations to make their information available to the Internet. [Exp. #141.]

Launch Point Internet Service
http://www.lpoint.com How to get a Web site for your company. [Exp. #142.]

The Libertarian Party, America's Third Party
http://www.lp.org/lp/ [Exp. #138.]

Links From The Underground
http://raptor.swarthmore.edu/jahall/ Original writings, anecdotes, and links with commentary convey a Net and world view on the Web. Coordinated craziness! [Exp. #140.]

Links Golf by Bengtson Company
http://www.well.com/www/bengtson/golf.htm Northern CA golf course directories, travel lodging and dining information, golf product information, and photos. [Exp. #142.]

The Mail Order Catalog Resource Center
ftp://ftp.crl.com/users/ro/csharrow/catalog1.html Comprehensive listing of US companies doing business via mail order catalog. [Exp. #140.]

Makin' Waves Studio
http://cyberzine.org/html/Waves/wavepage.html Aussie-style humor abounds, complete with free .wav sound files for download. Commercial enquiries welcome. [Exp. #138.]

Marine Jewelry by Robert Straight
http://www.stw.com/rls/rls.htm Ocean life rendered in fine gold jewelry. [Exp. #142.]

Mark Holt's Home Page
http://www.sun.com/sunsoft/cdware/mark.html A collection of cool and unusual Web sites. [Exp. #140.]

Match.Com
http://www.match.com "We met on the Net!" Thanks to Match.Com, the online dating service for the '90s. [Exp. #140.]

Mexico Out of Balance
http://www.igc.apc.org/nacla/mexico.html Hard-to-find, in-depth information and analysis concerning political, economic, labor, and trade issues in Mexico. [Exp. #138.]

Midnight Special Bookstore Home Page
http://msbooks.com/msbooks Midnight Special's motto is taken from Bertolt Brecht: "Hungry man, reach for the book: it is a weapon." [Exp. #141.]

The Millennium Whole Earth Catalog
http://www.well.net/mwec/ 29 pages from the Whole Earth Catalog transformed into about 170 Web pages. [Exp. #142.]

Minor Leagues, Major Dreams
http://www.deltanet.com/minorleagues Minor league baseball, hockey, arena football, Indy 500 sports apparel retail sales. [Exp. #140.]

Modulus Graphite
http://www.dnai.com/~modulus Catalog of high-end basses and guitars. [Exp. #138.]

Motorcycle Online
http://motorcycle.com/motorcycle.html Anything and everything to do with motorcycles. [Exp. #139.]

Napa Valley PC Users Group
http://community.net/~stevefc/index.html The home page for the Napa Valley PC Users Group. [Exp. #141.]

The National Center for Employee Ownership
http://www.esop.org/~nceo Provides information on employee ownership in the US and elsewhere, and lists publications and events. [Exp. #142.]

NetBiz
http://204.188.129.2/netbiz/netbiz.html or *http://voyager.via.net/netbiz/netbiz.html* Your advertising gateway to the Internet. Home pages and online advertising worldwide. [Exp. #140.]

Netsurfer Digest Home Page
http://www.netsurf.com/nsd Netsurfer Digest is a free email-delivered e-zine bringing cyberspace directly to your mailbox. [Exp. #140.]

Network World
http://voyager.via.net/netbiz/network.html The international directory of MLM and network marketing opportunities. [Exp. #141.]

New Wave Culture Plaza Inc.
http://www.rahul.net/newwave/newwave.html A mail order company dedicated to Chinese culture. Chinese CDs, LDs, CD-ROMs... [Exp. #140.]

Northern California Guide To Minor League Baseball
http://www.webcom.com/~rmd/baseball/minor-league.html Schedules, directions, ticket info, etc. for San Jose and Stockton. Coming soon: Modesto, Salinas, Sonoma. [Exp. #140.]

The North Pole
http://northpole.net Browse the North Pole; read messages from Santa, his elves, the reindeer; North Pole weather reports. [Exp. #138.]

The Omega Transmissions—A Techno-Thriller
http://one.mind.net/omega/index.html An action-packed adventure about NASA's SETI project (Search for Extraterrestrial Intelligence). [Exp. #140.]

The Online World Monitor
http://login.eunet.no/~presno/monitor.html A free, bimonthly online product for supporters of The Online World resources handbook; subscriptions available. [Exp. #141.]

The Online World—online resources handbook
http://login.eunet.no/~presno/index.html Broadcasting schedules for news in many languages, world travel guides, international affairs, health, much more. [Exp. #142.]

Only Multimedia, Inc.
http://www.webcom.com/~only A widely known super hot WWW site that your company can be a part of! (818)753-0037. [Exp. #142.]

Open Book
http://futon.sfsu.edu/%7etalon Open Book presents "Women's Journals," an interactive piece that was created exclusively for the Web. [Exp. #141.]

OpenMarket
http://directory.net/netinfo "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

Palookaville Hats
http://www.primenet.com/~hanibal/hat.html Cool hats for the Global Village Idiot in all of us. [Exp. #141.]

Patrick Salsbury's Home Page
http://www.visionware.com

Web Page Listings *continued...*

/pat.html 110+ starting points for exploring the Web, HTML URLs, and me on a rock. :-) [Exp. #140.]

PhoenixWeb
http://www.ptltd.com BIOS, plug and play SW, PCMCIA SW, Eclipse SW for desktop, portable, and handheld PCs. [Exp. #140.]

Pikes Peak Cam
http://www.softronics.com A spectacular, unobstructed view of Pikes Peak, updated every two minutes, from the roof of Softronics. [Exp. #142.]

QuoteCom
http://www.quote.com/ Stock quotes, business news, financial market data for investors. [Exp. #139.]

Randy Ksar's Home Page
http://www.mvhs.edu/~rksar Gives links and documents to those in need of a quick overview of the Web. Also offers Web services. [Exp. #138.]

Resumes Online
http://voyager.via.net/netbiz/resumes.html The place for job seekers to tell the world market of their availability. [Exp. #141.]

The Rivendel Pages
http://umbc8.umbc.edu/akhatt1/Rivendel.html Multiuser chat sites dedicated to communications for global understanding and creative expression. Come visit us. [Exp. #142.]

Rock Around the World™
http://www.ratw.com Rock Around the World™ radio shows and newspapers: music, interviews, news—the '70s through today. [Exp. #141.]

RTFM World
http://www.dnai.com/~cthomas/rtfm RTFM is an occasional rock 'n' roll band of Sybase tech support people. [Exp. #140.]

sale@exodus.com
http://www.exodus.com The complete solution to Internet access for business, education, and government applications. [Exp. #142.]

Salsa Express
http://www.stw.com/se/se.htm Southwestern culinary catalog. One-stop shopping for your salsa and hot sauce needs. [Exp. #142.]

San Francisco Bay Area And Beyond
http://www.hyperion.com/ba/sfbay.html Pointers to local attractions, entertainment, community services, employment, newspapers, sports, dining, and more. Updated weekly. [Exp. #140.]

The San Francisco Network
http://www.SF.net Growing collection of Bay Area databases and newsletters including restaurants, wineries, entertainment, and commercial locations. [Exp. #138.]

San Francisco Web
http://www.sfweb.com Body, mind, spirit, personals, neighborhoods, and, of course, business listings. [Exp. #142.]

San Jose State University Continuing Education
http://conted.sjsu.edu/ Degree credit, certificate, and professional development courses open to all adults—on and off campus. [Exp. #142.]

San Jose Symphony Home Port
http://webcom.com/~sjsympho/ Meet Maestro Leonid Grin and the 89 musicians of the San Jose Symphony. [Exp. #139.]

San Mateo Times
http://www.baynet.com/smtimes/index.html San Mateo County's only daily newspaper. [Exp. #139.]

The Seamless Website™
http://tsw.ingress.com/tsw/ Advertisements for law firms and legal services providers; law review articles and other legal information. [Exp. #140.]

Sega Web
http://www.segaoa.com Product information and graphics from the interactive king. Contests for prizes. [Exp. #140.]

Seminars in Usable Design
http://www.info-design.com/usable.design Seminars in online information design, UI design, and usability testing. Leaders include William Horton. [Exp. #141.]

Sensational Seminars
http://www.onramp.net/sensational Sensational Seminars, Inc. "We Make Education An Experience" presents "Hollywood In Cyberspace" Monday, April 3, in LA. [Exp. #139.]

Sharrow Advertising & Marketing BizInfo Resource Center
http://www.dnai.com/~sharrow/register.html Advertising and marketing reports and issues, mail order catalogs, ad parodies, humor and sarcasm, digital age issues and essays. [Exp. #142.]

The Shaw Festival
http://www.cyberplex.com/CyberPlex/Arts/Shaw/Shaw.html Information about shows currently being performed by the only company that specializes in plays written during G.B. Shaw's lifetime. [Exp. #138.]

SK Writers Home Page
http://www.skwriters.com A placement agency specializing in technical pubs, marcom, and training professionals. [Exp. #141.]

Sofal's Place
http://www.csua.berkeley.edu/~sophal Sophal's home page has many links to Cambodian-related home pages, not to mention his favorite quotations. [Exp. #140.]

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Web Page Listings *continued...*

SOFTWARE TECHNOLOGY SERVICE
ftp://ftp.crl.com/ftp/users/ro/sts/StsWWW/homepage.html Software and electronic analysis, design, and engineering. Specializing in unusual languages, systems, projects, and prototypes. [Exp. #140.]

SOLUTIONS SEMINARS
http://www.best.com/~solution Seminars for technical publications and training professionals. Documentation, online information. [Exp. #142.]

SPEEDGATE COMMUNICATIONS
http://www.speed.net Complete Internet service provider for the Orange County/Long Beach area. Information on services and prices. [Exp. #142.]

THE SRMC SPIDER WEB
http://sweb.srmc.com/ Full-service ISP-WWW, 28.8, ISDN through T-1, as well as on-site support and maintenance. [Exp. #139.]

STANFORD CENTER FOR TUBERCULOSIS RESEARCH
http://molepi.stanford.edu Research at Stanford University tracking the spread of tuberculosis in San Francisco. [Exp. #140.]

STANFORD UNIVERSITY BECHTEL INTERNATIONAL CENTER
http://fuji.stanford.edu/icenter/icenter.html Programs and services offered by I-Center for Int'l. students/scholars, families, and students who want to travel abroad. [Exp. #142.]

STARBOX GRAND CENTRAL
http://www.starbox.com/starbox/ Contact Tecnation Digital World for your own Starbox™ WWW site and inclusion in the intuitive Starbox directory. [Exp. #141.]

STAR TREK: VOYAGER
http://voyager.paramount.com Latest Web site by Paramount promotes new Star Trek show and connects studio with the fans. [Exp. #138.]

STOWE MOUNTAIN RESORT
http://www.together.com/sms/stowe Photos, weather maps, snow condition reports, press releases, lodging information, insider's guides, and special offers. [Exp. #139.]

SUPERBUSINESS NET
http://www.sbusiness.com Web pages, ftp and Internet services for business. We will be featuring secure transactions via the Web. [Exp. #140.]

SYBASE HOME PAGE
http://www.sybase.com Info on products and services; views of the San Francisco Bay by clicking on BayCam button. [Exp. #139.]

SYMMETRIC TECHNOLOGY
http://www.Symmetric.com Computer design, software development, systems, and networks. [Exp. #141.]

THE SYNDICATE
http://www.centcon.com/~billman/syn.html Devoted to helping those who seek financial information. Many articles, pointers to other investment information sites. [Exp. #142.]

THE TAX PROPHET
http://www.taxprophet.com The Tax Prophet deciphers the Internal Revenue Code for taxpayers and professionals alike. [Exp. #141.]

TECNATION DIGITAL WORLD
http://www.tecnation.com/tecnation/ Tecnation Digital World's online presence. Read about our innovative products and creative services. [Exp. #139.]

TELOS, THE ELECTRONIC LIBRARY OF SCIENCE
http://www.telospub.com/ TELOS publishes scientific titles with electronic components: CD-ROMs, diskettes, or files via Internet. It's cool. [Exp. #140.]

THINGS I'D LIKE TO SEE IN CYBERSPACE
http://www.clark.net/pub/journalism/wishes.html A simple home page to collect the thoughts and wishes of those using the Internet. [Exp. #139.]

THOMAS
http://thomas.loc.gov US House of Representatives: full text of all bills of 103rd Congress, email addresses, more. [Exp. #139.]

TIM HO
http://cad.ucla.edu:/~ho A serialized comic strip about a PC computer mouse. [Exp. #139.]

TOM CURTIS'S "WIDE WORLD OF ART"
http://www.slip.net/~tommy999 Evolving art-based home page including: multimedia, galleries, museums, sound, video, and public and personal art sites. [Exp. #142.]

TRADENET
http://voyager.via.net/netbiz/tradenet.html The international directory of world trade opportunities and offerings. [Exp. #141.]

TV NET
http://tvnet.com/TVnet.html TV Net provides information on broadcast/cable TV stations throughout the US and the world. [Exp. #138.]

UC RIVERSIDE, CALIFORNIA MUSEUM OF PHOTOGRAPHY
http://cmp1.ucr.edu Historical photographs, contemporary media arts, and children's projects are at the UCR/California

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17" 17SF 1280x1024 .25	$845
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2842A SCSI-2 VLB w/o Kit	$199
2825 IDE/SCSI/IO w/Kit	$155
2940 SCSI-2 PCI w/Kit	$225
2940W SCSI-2 PCI w/KIT	$295

TEKRAM CACHE CTR

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DC-620B EISA/IDE	$125
DC-320 EISA/SCSI	$125
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DC-800B ISA/SCSI w/1MB	$195
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486DX33/128K VLB	$899
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586 Pentium 75/256 PCI/VLB	$1208
586 Pentium 90/256 PCI/VLB	$1308
586 Pentium 100/256 PCI/VLB	$1448
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486DX4-100MHz	$239
486DX2-66MHz	$162
486DX-25/33/50MHz	$100/115/228
486SX-33/SX2-50MHz	$82/92

AMD

486DX4-100MHz (3V)	$172
486DX2-80MHz (3V/5V)	$135/155
486DX2-66MHz (3V/5V)	$125/149
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4M 1x32 70/60ns	$138/145
4M 1x36 80/70/60ns	$162/166/170
8M 2x32 70/60ns	$284/290
8M 2x36 70/60ns	$320/330
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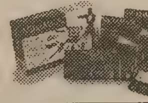

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Pro Turbo 2MB Mach-64 PCI/VLB	$349/349
Pro Turbo 4MB Mach-64 PCI/VLB	$538/538

DIAMOND

Stealth 32 2MB PCI	$182
Stealth 64 2MB DRAM PCI/VLB	$188/188
Stealth 64 2MB VRAM PCI/VLB	$278/278
Stealth 64 4MB VRAM PCI/VLB	$498/498

ORCHID

Fahrenheit 64 IMB PCI/VLB	$145/145
Kelvin 64 Win. Accel. 1MB PCI/VLB	$145/145
Kelvin 64 Win. Accel. 2MB PCI/VLB	$192/192

SPIDER

Spider Black Widow 2MB VRAM VLB	$215
Spider 64 (PCI/VLB) 1MB/2MB/4MB	$135/185/285
Tarantula (PCI/VLB) 2MB/4MB	$279/399

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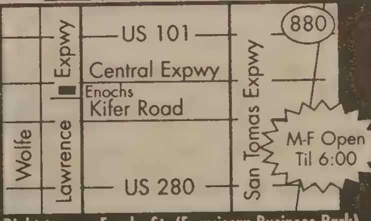

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Online Guide

Web Page Listings *continued...*

Museum of Photography. [Exp. #140.]

UC SANTA CRUZ EXTENSION CATALOG
http://www.ucsc.edu/unex Quarterly, UCSC Extension provides its catalog of 500 courses, as well as events and information. [Exp. #141.]

UNIFORM CAPITAL ACCESS NETWORK
http://www.ucan.com/ucan/ Offers investors and entrepreneurs the opportunity to explore business prospects. [Exp. #138.]

USAMALL
http://www.usamall.com Fun page with hot and hip info, adventure sports, and entertainment schedule for concerts in the Bay Area. [Exp. #140.]

VEGAN ACTION
http://www.umanitoba.ca/arrs/va/vegan_action.html A nonprofit group providing information on vegan, animal-free diets and lifestyles. [Exp. #139.]

VIDEOMAKER'S CAMCORDER & DESKTOP VIDEO
http://www.videomaker.com High-quality, up-to-date information on video production and distribution; to democratize and enrich television. [Exp. #141.]

VINKO KOJUNDZIC'S HOME PAGE
http://maja.zems.fer.hr/~vkojun This is a home page with nice pictures of Zagreb, and a link to our official WWW server. [Exp. #140.]

VIRTUAL VEGAS
http://www.virtualvegas.com Virtual Vegas brings fun, entertainment, contests, prizes, and more. You can virtually gamble here—stay tuned! [Exp. #141.]

VIRTUAL VINEYARDS
http://www.virtualvin.com Learn about the delights of great wine, discover your wine tastes, buy carefully selected wines. [Exp. #141.]

VISIONWARE HOME PAGE
http://www.visionware.com/ PC/UNIX connectivity products: PC X-Servers, terminal emulators, ODBC solutions, and free software demos! [Exp. #140.]

VOYAGER COMPANY
http://www.voyagerco.com Laurie Anderson, the *Paris Review*, the Guerrilla Girls, monthly opinion feature; demos, simulations from Voyager products. [Exp. #142.]

W3-DESIGN
http://www.w3-design.com Designers of World Wide Web sites. [Exp. #139.]

WALNUT CREEK CDROM
http://www.cdrom.com Publisher of over 50 CD-ROM titles and host of the busiest ftp site on the Internet. [Exp. #141.]

WALT PERKO'S HOME PAGE
http://slip.net/~wperko See pics of CD-ROMs 10,000 Sounds & Songs and MegaMODMadNess vol. 1. [Exp. #140.]

THE WAVE NETWORK
http://www.wavenet.com The Wave Network provides fast, reliable Internet access and Web design to Los Angeles. (213)933-9283. [Exp. #142.]

WEB BOOKS—ONLINE BOOKSELLER AND SPECIAL SERVICES
http://www.primenet.com/~jculp/ Online bookseller with specialties in the areas of sexuality, censorship/conspiracy, and sports. Special free services as well. [Exp. #142.]

WEBCHAT
http://www.IRSociety/WebChat.html Real-time, multimedia chatting on the WWW. [Exp. #139.]

WEB COMMUNICATIONS CORP. HOME PAGE
http://www.webcom.com/ Self-service, value-added, inexpensive WWW publishing services. [Exp. #141.]

WEBS ARE US
http://www.websrus.com The Internet experts for design, servicing, monitoring, and hosting your business presence on the WWW. [Exp. #142.]

WEB WORLD
http://204.188.129.2/netbiz/webworld.html or *http://voyager.via.net/netbiz/webworld.html* The World Wide Web home page directory. Access any listed page with one mouse click. [Exp. #140.]

WEDDINGS ONLINE
http://www.sensemedia.net/sprawl/weddings A one-stop information resource making it possible to plan your wedding right from home. [Exp. #140.]

WELCOME TO WOL ON THE WEB
http://www.cris.com/WOL The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #140.]

WELLNESS ESSENTIALS
http://voyager.via.net/netbiz/weles.html The home page of wellness information and nutritional products and more. [Exp. #141.]

WHAT'S NEW IN TRAVEL
http://voyager.via.net/netbiz/travel.html The place to get "freebies," info, discounts, and hot travel deals. [Exp. #141.]

WH NETWORKS
http://www.whnet.com/wolfgang Connecting Minds, data communications archive. [Exp. #140.]

WORLD CONQUEST
http://dnai.com/~conquest Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #140.]

THE WORLD SQUARE
http://www.w2.com "Virtual mall" with companies doing business in music, art, publishing, food, finance, automobiles, heath, and medicine. [Exp. #142.]

WRITER'S SHOWCASE
http://community.net/~necknox Tells about the author and book on disk called *Fatal Image*. [Exp. #140.]

YOU@HERE.NOW
http://www.webcom.com/~blessed Interactive philosophical site that allows you to share your contemporaneous thoughts with your fellow beings. [Exp. #140.]

ZIPZAP UNIVERSE
http://zipzap.com Home to the ZIPZAP Gallery, *Deep Style* Magazine, *ZIPZAP* e-zine, and the ZIPZAP Universe BBS. [Exp. #140.]

THE Z TIMES
http://www.lh.com/z National Association of Broadcasters 95 show report, St. Stupid Day Parade in San Francisco, links to unusual sites. [Exp. #142.]

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Intel 486 DX4 100/75	$268/$220
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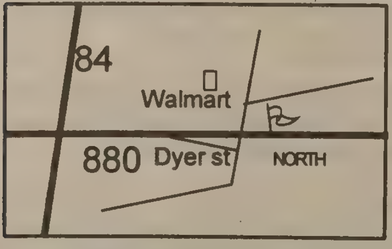
AMD 486 DX2 66/DX2 80/DX4 100	$122/$139/$169



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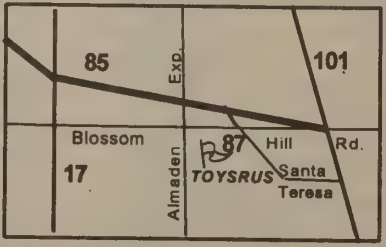

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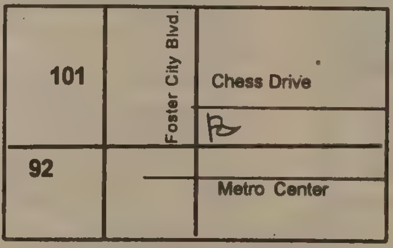

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ATLAS P90 256K W. EIDE/IO PCI	*$899*
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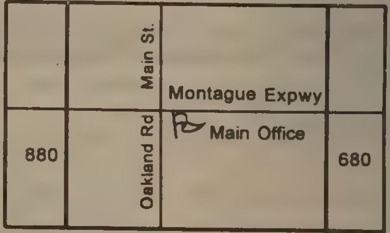

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- Adaptec 2940 PCI SCSI Controller
- 2S1P1G IO
- CONNER 1 GB MB SCSI HD
- Diamond Stealth 64 PCI w/1MB
- Acer 15" .28dp 1280X1024 Non-Int
- Keytronic 101-key Keyboard
- MS DOS 6.22
- Medium Tower Case
- 250-Watt Power Supply

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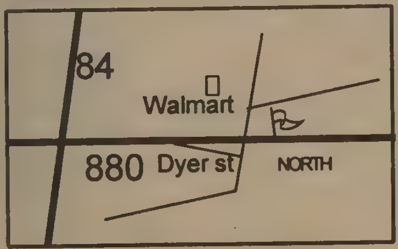

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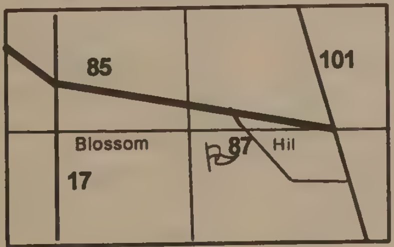

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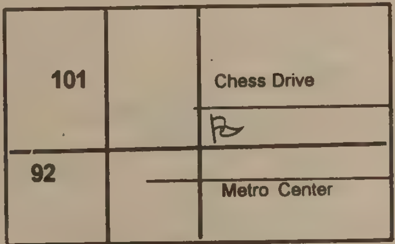

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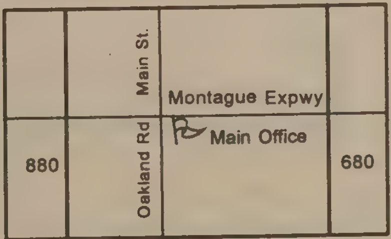

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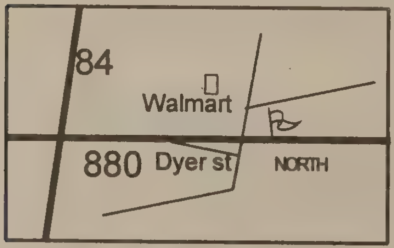

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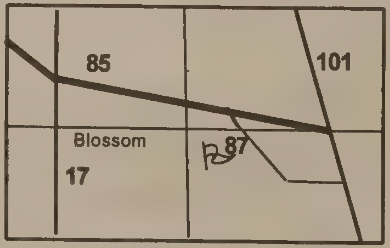

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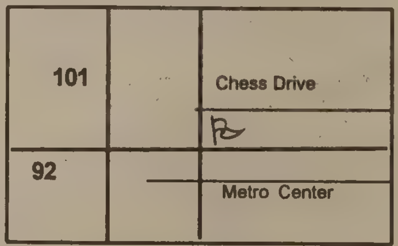

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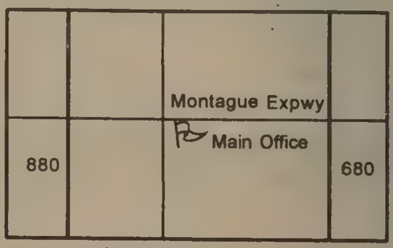

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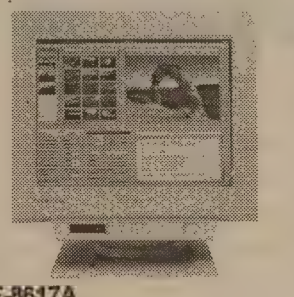

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PRINTERS

CANON	
BJ-200E/BJC-600	$269/$509
CITIZEN	
GX220/Project II Portable	$175/$230
HP (Hewlett Packard)	
DeskJet 540/560C	$286/$466
LaserJet 4L	$519
LaserJet 4/4Plus	$1355/$1399
LaserJet 4M/4ML/4M Plus	$1895/$1690/$980
LaserJet 4P/4MP	$929/$1350
LaserJet 4V/4MV	$1879/$2739
LaserJet 4Si/4SiMX	$2835/$3990
HP 1200C	$990
HP 320 Portable	$289
OKIDATA	
OL400E Laser	$425
PANASONIC	
2023 24pin	$185
2123 24 pin	$199
Color Kit for 2123	$54
4410 Laser Printer	$429

MISC

LOGITECH	
First Mouse	$25
Trackman Retail	$73
Trackman Oem	$49
Mouse man serial	$32
Mouseman Bus	$59
Mouseman Cordless 2	$89
MICROSOFT	
Serial/Bus (w/System)	$35/$55
3 Button Mouse	$7

Troubleshooting & Upgrading

Labor charge for:

CPU & Memory Upgrade	FREE
System Diagnostic Checkup	$10
Multimedia Kit Installation	$30
Installation for HDD	$15
Video Card + Driver Setup	$20
Motherboard Upgrade	$20
Install Software/Setup	$30/hr
System Troubleshooting	$40/hr

Terms & Conditions:

- One year parts and labor warranty
- Prices and availability subject to change without notice
- Shipping, COD, & insurance are extra and not refundable
- Prices reflect cash discount
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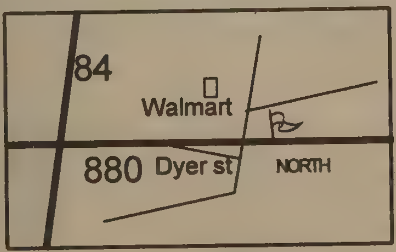
- All returns must be in original packaging complete with manual, software,...etc.
- 15% restocking charge
- Not responsible for typos on this ad



LAITRON UNION CITY

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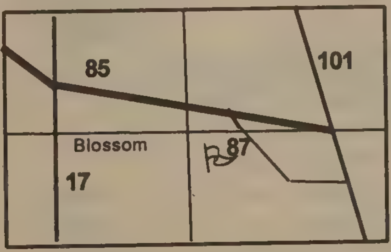

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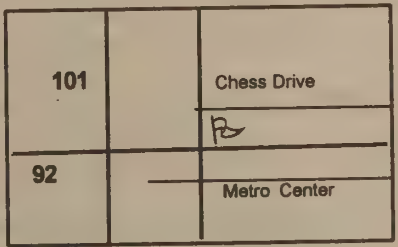

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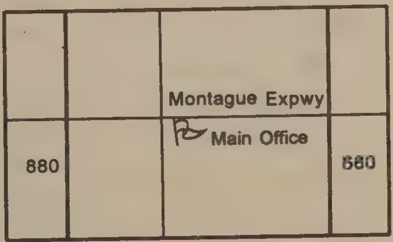

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Mon-Fri: 8:30-5:30
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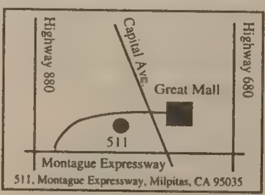

VALUE SYSTEM

- Pentium Overdrive Ready
- Motherboard & CPU
- 128/256K External Cache On Board
- 4 MB RAM (8 MB For Pentium)
- 210 MB IDE Hard Drive
- 1.44 MB Floppy Drive
- IDE 2HD/2FD Controller w/I/O
- 2 Serial, 1 Parallel, 1 Game Port
- 512K SVGA Video Card
- 1024x768 .39 14" SVGA Monitor
- Deluxe Mini-Tower Case w/Power Supply
- 101 Enhanced Keyboard
- Microsoft Compatible Mouse w/Pad

INTEL PENTIUM 100 PCI	**$1449**
INTEL PENTIUM 90 PCI	**1329**
INTEL PENTIUM 75 PCI	**1209**
INTEL PENTIUM 66 PCI	1149
INTEL PENTIUM 60 PCI	1089
INTEL 486DX4-100 PCI	**919**
INTEL 486DX2-66 PCI	**859**
AMD 486DX4-100 PCI	**859**
AMD 486DX2-80 PCI	829
AMD 486DX2-66 PCI	819
CYRIX 486DX2-80 PCI	809
INTEL 486DX4-100 VLB	**889**
INTEL 486DX2-66 VLB	**759**
AMD 486DX4-100 VLB	**889**
AMD 486DX2-80 VLB	**799**
AMD 486DX2-80 VLB	789
CYRIX 486DX2-66 VLB	789
CYRIX 486DX2-60 VLB	739
INTEL 486DX2-66 ISA	**799**
INTEL 486DX-33 ISA	**769**
AMD 486DX2-66 ISA	**769**
CYRIX DX2-50 ISA	709
IBM 486BL-75 VLB	**779**
IBM 486SLC2-66 VLB	**709**
CYRIX 486DLC-40 ISA	689
CYRIX 486SLC-33 ISA	649
AMD 386DX-40 ISA	669

UPGRADES

Hard Drive	CALL
1 MB SVGA Card	$30
.28 14" SVGA Monitor	30
.28 14" NI SVGA Monitor	40
.28 15" NI SVGA Monitor	140
14.400 Fax/Modem Internal	44
250 MB Tape Back-Up	99
Multimedia Kit	CALL

PROFESSIONAL SYSTEM

- **INTEL Pentium CPU**
- **INTEL "Advanced Zappa" Motherboard**
- Newest **Triton** Chipset by INTEL
- 256K Fast External Cache RAM
- **16 MB Fast RAM (128MB Max)**
- **1 GB SCSI-II Fast Hard Drive**
- **ADAPTEC 2940 PCI SCSI-II Controller**
- TEAC 1.44 MB Floppy Drive
- 2-16550 High Speed Serial Port
- 1 Bi-Directional Printer Port
- **DIAMOND STEALTH 64 PCI Video 2 MB VRAM**
- **SONY 17SF .25NI Monitor 1280x1024**
- **QUAD Speed SCSI CD-ROM Drive**
- **SOUND BLASTER 16 Sound Card**
- 80W Deluxe Stereo Speakers
- **MICROSOFT Natural Keyboard**
- FREE Microsoft Mouse w/Pad
- MICROSOFT DOS 6.22 (Option)
- MICROSOFT WINDOWS 3.11 WG (Option)
- **MICROSOFT Office 4.3 Professional (Option)**
- MICROSOFT Bookshelf (Option)
- Lease Available
- On-Site Service Available

PENTIUM 75 MHz	**$3699**
PENTIUM 90 MHz	**$3799**
PENTIUM 100 MHz	**$3899**
PENTIUM 120 MHz	**$4299**

HOME MULTIMEDIA SYSTEM

- Pentium Over Drive Ready
- 128/256K External Cache On Board
- 4 MB High Speed RAM (8 MB For Pentium)
- 420 MB IDE Hard Drive
- 1.44 MB Floppy Drive
- PCI/VLB 32 Bit Enhanced IDE Controller
- 2 Serial, 1 Parallel, 1 Game Port
- PCI/VLB Accelerated Video Card 1 MB (2MB Max)
- 1024x768 .28 14" NI SVGA Monitor
- Deluxe Mini-Tower Case w/Power Supply
- 101 Enhanced Keyboard
- Microsoft Compatible Mouse w/Pad
- Double Speed CD-ROM Drive
- 16-Bit Stereo Sound Card
- Magnetic Shield Speakers
- MICROSOFT DOS 6.22
- MICROSOFT WINDOWS 3.11
- **FREE CD Software: Groliers Encyclopedia, Animals, US Atlas, World Atlas and more, a $300 Value!**
- Quiken on CD (Option)
- Home Office on CD (option)

Complete Multimedia $999!

486DX2-66 VLB	**$999**
486DX2-80 VLB	**1029**
486DX4-100 VLB	**1119**
486DX4-100 PCI	**1339**
PENTIUM 75 PCI	**1339**
PENTIUM 90 PCI	**1449**
PENTIUM 100 PCI	**1559**

BESQ BUSINESS SYSTEM

- **Pentium Over Drive**
- 256K External Cache On Board
- 8 MB High Speed RAM
- **540 MB Fast EIDE Hard Drive**
- **TEAC 1.44 MB Floppy Drive**
- PCI/VLB 32 Bit Enhanced IDE Controller
- 2 16550 High Speed Serial Ports, 1 Parallel Ports
- **ATI Woder PCI/VLB Video Card 1 MB (2 MB Max)**
- **VIEWSONIC 15" NI SVGA Monitor**
- Deluxe Computer Case w/230W Power Supply
- KEYTRONICS 101 Enhanced Keyboard
- MICROSOFT Serial Mouse w/PAD
- MICROSOFT DOS 6.22 (option)
- MICROSOFT WINDOWS 3.11 For Workstation (option)
- **MICROSOFT Office 4.3 Professional (Option)**
- MICROSOFT Bookshelf (Option)
- Leasing Available
- On-Site Service Available

PENTIUM 100 PCI	**$1839**
PENTIUM 90 PCI	1719
PENTIUM 75 PCI	**1599**
PENTIUM 66 PCI	1529
PENTIUM 60 PCI	**1469**
486DX4-100 PCI	1399
486DX2-80 PCI	**1319**
486DX2-66 PCI	**1299**

Call For Upgrade Options And Multimedia Kits!

OFFICE STATION SYSTEM

- **Pentium Over Drive Ready**
- 256K Fast External Cache RAM
- 8 MB High Speed RAM
- **540 MB Fast Hard Drive**
- 1.44 MB Floppy Drive
- PCI/VLB 32 Bit Enhanced IDE Controller
- 2-16550 High Speed Serial Ports 1 Parallel Port (PCI)
- **ORCHID EZ PCI/VLB Video Card 1 MB (2 MB Max)**
- **IMPRESSION 15" NI SVGA Monitor 1280x1024**
- Deluxe Computer Case w/230W Power Supply
- **QUAD Speed IDE CD-ROM Drive**
- **FOCUS 2001 Enhanced Keyboard w/Dust Cover**
- **MICROSOFT WINDOWS 3.11 For Workgroup**
- MICROSOFT Office 4.3 Professional (Option)
- Microsoft Serial Mouse w/Pad
- MICROSOFT DOS 6.22
- MICROSOFT Bookshelf (Option)
- MICROSOFT Works (Option)
- Lease Available
- On-Site Service Available

PENTIUM 100 PCI	**$2029**
PENTIUM 90 PCI	1899
PENTIUM 75 PCI	**1799**
PENTIUM 66 PCI	1729
PENTIUM 60 PCI	**1679**
486DX4-100 PCI	1599
486DX4-100 VLB	1569
486DX2-80 VLB	1509
486DX2-66 VLB	1489

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ART MULTIMEDIA SYSTEMS, INC

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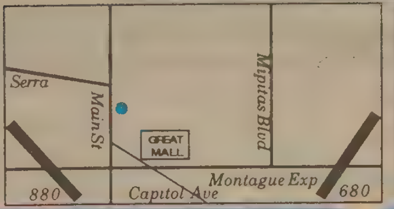

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- Not responsible for typos.
- Prices based on cash prices.
- Company term on credit approval.
- School & Government PO's accepted

DESCRIPTION	[illegible]
Intel Neptune P5-100/25K PCI	$767
Intel Neptune P5-90/256K PCI	$646
Intel Neptune P5-75/256K PCI	$548
Intel Triton P5-100/256K PCI	$777
Intel Triton P5 90/256K PCI	$672
Intel Triton P5-75/256K PCI	$574
Opti Pentium P5-66/256K PCI+VLB	$399
Oti Pentium P5-60/256K PCI+VLB	$342
Genoa 486DX4-100/256K PCI (Intel)	$326
Genoa 486DX4-100/256K VLB (AMD)	$266
Genoa 486DX2-80/256K VLB (AMD)	$233
Genoa 486DX2-66/256K VLB (Intel)	$254
IBM486SLC2-66/64K VLB w/Mathco	$140
SiS Pentium P5-100/256K PCI w/IDE PCI	$689
SIS Penuium P5-90/256K PCI w/IDE PCI	$584
SIS Pentium P5-75/256K PCI w/IDE PCI	$485
486DX4-100/256K PCI w/IDE PCI (Intel)	$341
486DX4-100/256K VLB (Intel)	$300
486DX2-66/256K VLB (Intel)	$237
486DX-33/256K VLB (Intel)	$183
486DX4-100/256K PCI w/IDE PCI (AMD)	$281
486DX4-100/256K VLB (AMD)	$240
486DX2-80/256K VLB (AMD)	$206
486DX2-66/256K VLB (AMD)	$205

VERY AFFORDABLE 486 VLB

- ◆ 486/256K Motherboard
Expandable 256K(30&72 pin sockets)
- ◆ 486 CPU
- ◆ 4MB - 70ns RAM Exp. 64MB
- ◆ 1.44 Teac FD (3.5")
- ◆ Spider 32 VLB w/1MB
  - Upgradeable to 2MB
  - Windows Accelerator
  - 16.7 Million Colors
- ◆ IDE VLB w/1p,2s,1g
- ◆ 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- ◆ 420 MB Hard Drive
- ◆ Mini tower Case w/ 230W
- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Compat. Mouse w/ Pad
- ◆ Free CPU Fan

486DX4-100(Intel)	$963
486DX4-100(AMD)	$903
486DX2-80(AMD)	$870
486DX2-66(Intel)	$900
486DX-66 (AMD)	$869

3% OFF

FOR CASH PURCHASE

SPECIAL VALUE GENOA 486 VLB

- ◆ 486/256K Genoa Motherboard
Exp. 512k - (72 pin sockets)
- ◆ 486 CPU
- ◆ 8MB - 70ns RAM
- ◆ 1.44 Teac FD (3.5")
- ◆ Spider 32 VLB w/1MB
  - Upgradeable to 2MB
  - Windows Accelerator
  - 16.7 Million Colors
- ◆ IDE VLB w/ 1p, 2s, 1g
- ◆ 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- ◆ 420 MB Hard Drive
- ◆ Mini tower Case w/ 230W
- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Compatible Mouse w/ Pad
- ◆ Free CPU Fan

486DX4-100 (Intel)	$1123
486DX2-100(AMD)	$1063
486DX2-80 (AMD)	$1030
486DX2-66(Intel)	$1050
486DX-66 (AMD)	$1029

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BEST BUY PENTIUMS

- ◆ Intel Neptune PCI MB w/256K
- ◆ Pentium P5 CPU
- ◆ IDE PCI Controller
w/1p,2s.1g & 16550 chip
- ◆ 8MB - 70ns RAM (72 pin SIMM)
- ◆ 1.44 Teac FD (3.5")
- ◆ Spider Tarantula Lite w/ 1M
  - Uses the S372 Chipset
  - 64 Bit Accelerator
  - 16.7 Million Colors
  - Expandable to 2MB
- ◆ 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- ◆ 540 MB Hard Drive
- ◆ Medium tower Case w/ 230W
- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Mouse w/ Pad
- ◆ Free CPU Fan

Pentium 100(Intel)	$1610
Pentium 90 (Intel)	$1490
Pentium 75 (Intel)	$1390
Pentium 66 (Intel)	$1359
Pentium 60(Intel)	$1300

3% OFF

FOR CASH PURCHASE

FAMILY MULTIMEDIA SYSTEM

*Motherboard w/256K +CPU
*8MB RAM
*540MB IDE Hard Drive
*SPiDER 32 VLB w/1MB
(for 486 system)
*SPiDER Tarantula Lite PCI w/ 1M
(for Pentium system)
*IDE VLB (for 486 system)
*IDE PCI (for Pentium system)
*1.44 Teac FD
*101 Enhanced Keyboards
*15" SVGA Non-Int Monitor
(1280 X 1024, .28dp)
*Super-mini Tower Case
*Double Speed CD-Rom
*Creative Labs SB 16 MCD
*Speakers
**Microsoft* DOS 6.X
**Microsoft* Windows 3.X
**Microsoft* Encarta 95
**Microsoft* Money
**Microsoft* Works
*Entertainment Package (13 games)

486DX4-100 (Intel)	$1467
486DX4-100(AMD)	$1406
486DX2-80 (AMD)	$1372
486DX2-66 (Intel)	$1398
486DX2-66 (AMD)	$1370
P5-60 PCI VLB	$1518
P5-66 PCI VLB	$1572
P5-75 PCI (SIS)	$1660
P5-90 PCI (SIS)	$1764
P5-100 PCI (SIS)	$1874

PROFESSIONAL DREAM SYSTEM

*Intel Triton Zappa PCI MB w/ 256K
*Intel P5 CPU
*CPU Cooler
*EIDE PCI w/ 1p,2s W/ 16550 UART
*8 MB RAM
*SPiDER Tarantula Lite PCI w/ 1M
*1.44 Teac FD
*Keytronics Keyboard
*15" SVGA Non-Int Monitor
(1280 X 1024, .28dp)
*850 MB EIDE Hard Drive
*Medium Tower Case w/230W
*Microsoft Ergonomic Serial Mouse
**Microsoft* DOS 6.X
**Microsoft* Windows 3.X

P5-120 PCI	$2387
P5-100 PCI	$1810
P5-90 PCI	$1700
P5-75 PCI	$1597

MULTIMEDIA SYSTEM OF THE MONTH

*Motherboard w/256K + CPU
*8MB RAM
*SPiDER 64 w/1MB 64 Bit Accelerator
64 Bit Accelerator
16.7 Million Colors
Expandable to 2MB
*IDE VLB w/ IO OR IDE PCI w/ IO
*14" Non-Int. Monitor (1024 X 768)
*540MB Hard Drive
*1.44 TEAC FD
*Medium Tower Case
*Mouse & Mouse Pad
*Quad Speed (4Xi) CD-ROM
*Creative Labs Soundblaster 16 MCD
*Speakers
**Microsoft* Encarta 95
**Microsoft* Money
**Microsoft* Works
*Entertainment Package (13 games)

P5-100 (SIS) PCI	$1836
P5-90 (SIS) PCI	$1730
P5-75 (SIS) PCI	$1630
P5-66 (Opti) PCI + VLB	$1564
P5-60 (Opti) PCI + VLB	$1500
Genoa 486DX4-100 VLB (Intel)	$1490
Genoa 486DX4-100 VLB (AMD)	$1430
Genoa 486DX2-80 VLB (AMD)	$1398
Genoa 486DX2-66 VLB (Intel)	$1415

KEYBOARD

101 Enhanced keyboard	$18
Maxiswitch/Keytronics	26 / 29
Focus 2001/7000/8000/9000	35/47/35/50
Omnikey 101	70

MISCELLANEOUS

❖ZOLTRIX	
Fax Modem (96 F, 24 M)/Win	$39
Fax Modem (14400 F, 14400 M) Int / Ext	57 / 85
Fax Modem 14.4 voice/28,800 V.34	63/135
◆ US Robotics Fax/Modem 14,400	99
◆ US Robotics Fax/Modem 28,800 v.34	219
◆ Microsoft mouse serial/bus	26/53
◆ Logitech Mouseman serial/Bus (4000dpi)	30/51
❖COLORADO	
DJ-20 250MB/DJ-35C 350MB DJ-25 700MB	138/170/245
Trakker 250MB/Trakker 680MB	295/350
◆ Baby AT/Mini Tower case w/230W PS	40
◆ Medium Tower case w/230W PS	60
◆ Full Tower case w/250W PS	80
◆ Dual Floppy Drive 1.2+1.4MB	95
◆ TEAC 1.2FD/1.44FD	42/38

HARD DRIVES

❖CONNER	
420mb/14ms (IDE)	157
1.2 GB/12ms (EIDE)	340
850mb/12ms (EIDE)	230
1.0 GB/10ms (SCSI)	440
❖MAXTOR	
850mb/10ms (EIDE)	225
540mb/14ms (IDE)	175
345mb/14ms (SCSI)	173
❖QUANTUM	
540mb/14ms (IDE)	175
540mb/11ms LT540AT (IDE)	210
540mb/14ms (SCSI)	210
730mb/12ms (EIDE)	220
730mb/12ms (SCSI)	249
2.1 GB/8ms (SCSI-2)	820
❖WESTERN DIGITAL	
850mb/10ms (EIDE)	235
540mb/12ms (IDE)	205
1.2 GB/10ms (EIDE)	340

MULTIMEDIA

❖CREATIVE LABS	
SoundBlaster Basic 2.0	58
SoundBlaster Pro 16 MCD OEM/ MCD w/ASP OEM	79/110
SoundBlaster 16 SCSHI OEM/ SCSI II w/ASP Orig	110/190
SoundBlaster AWE 32	265
◆SONY 55 E Double speed CD ROM	115
◆CHINON 2XI speed CD ROM SCSI	125
◆MITSUMI 4XI CD ROM IDE	185
◆TEAC 4XI CD ROM IDE	182
◆TOSHIBA CD ROM 3601 Int / Ext	310/405
◆ Impression 2xi Multimedia Kit: Double-speed CD-ROM + Soundblaster 16 5 Microsoft *Home* software + Speakers	235
◆ Impression 4xi Multimedia Kit: Quadruple-speed CD-ROM + Soundblaster 16 5 Microsoft *Home* software + Speakers	299
◆ *SCSI 4xi Multimedia Kit:* Toshiba 3601 4xi + Soundblaster 16 SCSI-II Microsoft *Home* software/Dune/MS Mouse Amplified Speakers + Microphone	500

CONTROLLER CARDS

IDE W/ I/O / I/O w/ 1p,2s,1g	14 / 12
IDE VESA Local Bus / w/16550	20/34
Enhanced IDE VLB / w/16550	30/40
PCI IDE/PCI IDE w/16550	36/40
Adaptec SCSI 1522	77
Adaptec SCSI 1542CF/1542CF w/Kit	185/245
Adaptec EISA SCSI 2742T OEM w/Kit	250
Adaptec SCSI PCI 2940 OEM/ 2940 w/Kit	215/240
Adaptec SCSI PCI 2940W w/Kit	290
Adaptec SCSI 2842A-VL OEM w/ Kit	300

VIDEOCARDS

❖TRIDENT	
SVGA-512/1MB (1024x768,16bit)	$38/58
❖DIAMOND	
Viper Pro Video w/2MB / 4MB	345/475
Stealth 64 VLB/PCI w/1MB/2MB DRAM	125/175
Stealth 64 Video PCI w/2MB/4MB VRAM	265/435
❖SPIDER	
Tarantula VLB/ PCI w/2MB/4MB VRAM	240/355
Tarantual Lite (S3) PCI w/ 1MB/2MB	87 / 137
32VESA Local Bus w/1MB/2MB	87/137
32VLB Plus w/1MB/2MB	90/135
BlackWidow Engine ISA 1M/2M	125/175
BlackWidow+ PCI/VLB w/1MB/2MB	150/210
256 Cache VLB w/1MB/2MB	95/142
64 VLB/PCI w1MB/2MB/4MB	112/160/255
❖ORCHID	
Kelvin 64 VLB/PCI w/1MB/2MB DRAM	138/177
Kelvin Easy VLB/PCI w/ 1MB	105
Fahrenheit PRO VLB/PCI 2M/4M VRAM	275/405
❖ATI	
ATI Ultra Pro Mach 32 VLB/PCI w/2MB VRAM	220
ATI Mach 64 WinTurbo PCI w/2MB/4MB VRAM	265/430
ATI Expression VLB/PCI w/2MB DRAM	140/175
ATI Winturbo VLB w/ 4MB	460

MONITORS

❖NANAO	
F2-15 / F2-17 / F2-17EX	519/824/915
T2-17TS /T2-17/T2-20	979/1234/1840
❖NEC	
XP15/XE15	625/525
XE17/XP17	955/1185
XE21 / XP 21	1890/2350
❖MAG	
DX15 FE/DX17F (1280x1024)	350/610
❖SONY	
GDM 20SE/ 17SF	1830/825
❖HITACHI	
CM1797 (1600X1200, .26)	895
CM-2096 20"	1,165
CM-1587MV	365
ACUVUE GX20/GX21	1460/1769
❖VIEWSONIC	
6 E/ M -V15ES/ 15G	252 / 350/ 400
17GS/17E	750/670
20PS/21PS	1,390/1,615
❖PACOM	
Non-interlaced 14" Monitor 0.28	215
Non-interlaced 15" Monitor 0.28	290
Impression 17" Non-Int. Monitor 0.28	540

Intel Pentium 75/90/100 MHz 540MB 8MB Opti Viper PCI

- Intel Pentium 75/90/100 MHz CPU CPU Cooling Fan
- SUPERMICRO P54CI USA Made MotherBoard Opti Viper Chipset PCI 256KB Cache Support 120MHz & Overdrive for P54C & P54CS
- 8MB 72-Pin Simm 70ns (up to 64MB)
- 540MB Enhanced IDE 12ms Hard Drive
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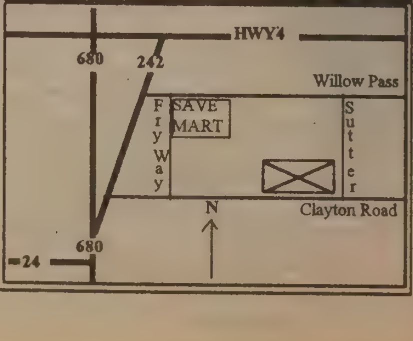

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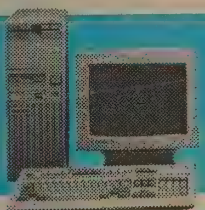

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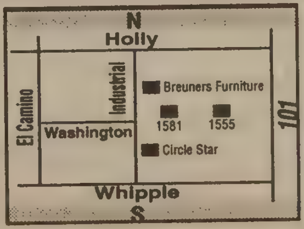

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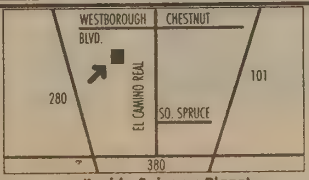

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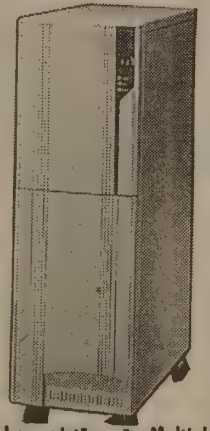

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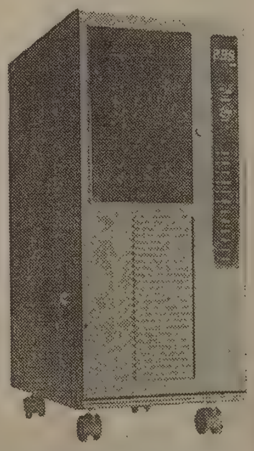

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ISA 486SX25/33 128K	$152/160

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MustangO 486DX-33 256k Intel	$203
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MsgO486DX2-66 256K C/AMD/I	$177/219/261
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Promise DC200 2FD/4HD	$92
FAST-PIG IDE/IO / Fast IO Uarts	$33/23
ULTRA-IO 4S/2P 4 16C550 Bi-Dir Boca	$86

SCSI

Future Domain Comp 16 bit no floppy	$43
ADAP 1522 16BIT Card/Kit	$74/135
ADAP 1542C Card/Kit	$188/247
ADAP 1742 EISA	$352
ADAP 2742 EISA Fast SCSI2 C/K	$291/352
Bus Logic BT 742 Card	$272
Bus Logic BT747S Card/Kit 747S	$287/312
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Mustang IDE-IO VLB Enhanced/PCI	$20/20
MustangT IDE VLB w/Fast IO	$23
Mustang PCI IDE w/16550	$35
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BusLogic BT445S Fast SCSI-II c/kit	$173/201
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BusLog KT946c SCSI-2 PCI Kit C/K	$176/266
ADAPTEC 2842 SCSI II Kit card/retl	$210/232
Adaptec 2940 PCI Kit card/Retail	$199/287

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ASA House Brand

902Z 96/24 Fax (Send)/Mod Int	$27
992Z 96/24 Fax/Modem	$39
1414IZ 14.4 F/M,.32/.42 w/Bitfax Int	$48
14.4 F/M .32/.42 w/Voice	$53
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1414PZ Pocket 144 F/M, v.32, v.42	$176
992MG PCMCIA 96/24 F/M v. 42	$132
1414MG PCMCIA144/144 F/M v.42	$244

U.S. Robotics

USRobotics 14,4 Mod/Fax I/E	$97/111
USRobotics 28.8 M/F I/E	$226/235

Supra

14.4 F/M Int/Ext	$92/105
28.8 Int./Ext	$235/245

MULTI MEDIA

Panasonic 562 DblSpd 300kb/s	$118
Sony 55E DblSpd	$109
Chinon 2x SCSI Int	$137
TEAC Quad Panasonic interface	$177
Mitsumi Quad IDE Interface	$197
NEC 3X 510CDR Int 195ms,450KB/sec	$215
NEC 511 4X Int	$305
TOSHIBA 3601 Int. 120ms,600Kb/sec	$333
Plextox 6X 900kb/sec,100msec	$548

AUDIO CARDS & MPC KITS

Sound Blaster 16 bulk	$70
Sound Blaster 16 Basic VE Retail	$91
Snd Blaster 16 SCSI/ w/ASP OEM	$Disctd.
Creative Labs CD kit	$268
Encyl 1:Encyl,Animals,World/US Atlas	$31
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YE Data 1.2/1.44MB	$41/31
Teac 1.2/1.44MB	$45/34
Teac Dual Floppy 1.2 + 1.44 MB	$88

HARD DRIVES

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CONNER/Qtm 420MB	$166
WD 425MB 13msec	$172
CON 540	$183
QTM 540 MV/LT	$183/199
WD 540 12msec	$199
WD 730/850 12msec	$219/229
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CON 850	$229
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QUN 540MB MV/LTS	$189/199
Quantum 700 LT	$245
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ST 31230N 1.2GB Hawk	$529
Quantum 2150 GB Atlas	$839
ST 32430N 2.1GB Hawk	$859
ST 32550N 2GB Barracuda	$975
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Conner 420 MB QIC Format	$174
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HP 2GB 35470 DAT 4mm Int/Ext	$779/869
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OL830 Plus/850, 8ppm w/ 2MB ps	$1055/1165
OKI ML520/521 9 pin 64K	$359/475
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Deskjet 560C Color,3ppm,300dpi,80k	$465
Deskjet 1200C/ps Color2MB	$1357/1837
HP 4+/4P/4SI/4L/4V	$1349/922/2891/641/1995
4M+/4ML/4MV/4 SiMX	$1941/985/2785/4055

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NE 2000+ Comp 16bit Coax/10BT	$27/27
NE2000+ Comp Combo soft&hard config	$36
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SMCEthcardEliteUltraCOMBO 1/6	$119/625
3C590 PCI Combo	$155
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3 Com Link Builder 3C621 12 Port	$714

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V3.12/4.01 5/10/25/50	$557/1212/1849/2167
V3.12/4.01 100/250 User	$3312/6621
V4.02 500/1000 User	$13999/26879

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APC-BK450	$173
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SPOOL	$80
RJ45 10BT 1000' level4/5	$119/130
BNC 50 Ohm Terminator/Crimp-ON/Barrel	$1.49

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VLB/PCI ADAPTERS

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Hitachi-CM 2198 21" .28 1280NI	$1989
Sony-15SF 15" 1280x .25	$425
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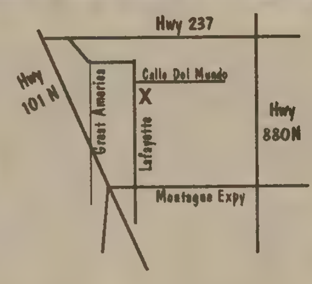

Santa Clara, CA

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INTEL MOTHERBOARD
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MOTHERBOARD/CPU
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PCI
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$1158
MOTHERBOARD/CPU
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PCI
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256K CACHE SYSTEM
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256K CACHE SYSTEM
$558
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VESA LOCAL BUS
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256K CACHE SYSTEM
$518
MOTHERBOARD/CPU
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AMD Processor
VESA LOCAL BUS
486-80DX2
256K CACHE SYSTEM
$528
MOTHERBOARD/CPU
$248

INTEL Processor
VESA LOCAL BUS
486-33
256K CACHE SYSTEM
$508
MOTHERBOARD/CPU
$228

VESA LOCAL BUS
486SX-33
256K CACHE SYSTEM
$478
MOTHERBOARD/CPU
$198

VESA LOCAL BUS
486SX-25
256K CACHE SYSTEM
$468
MOTHERBOARD/CPU
$188

BASIC SYSTEM CONFIGURATION:

- 4MB RAM Expandable Except Pentium (Pentium 8 MB)
- IDE 2FD/2HD Controller
- 101 Key Mitsumi Keyboard
- Teac 1.44 MB Floppy Drive
- 2 Serial, 1 Parallel, 1 Game Ports (Exp. Pentium)
- Mini Desk Top or Mini Tower Case
- Power Supply
- One Year Warranty

LIFETIME LABOR WARRANTY ON SYSTEM!

486 VLB MULTIMEDIA COMPLETE SYSTEM

PACKAGE INCLUDES:

- Motherboard w/256K Cache
- 4 MB RAM
- 420 MB Hard Drive
- Mini Tower or Mini Desktop Case
- Panasonic CD-ROM Model 562
- Media Magic Sound Card
- Teac 1.2 and 1.44 MB Floppy Drive
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- SVGA Card w/1MB (S3 Chipset)
- IDE Controller (2S/1P/1G)
- 101 Keyboard
- 25W Speakers
- Microsoft Compatible Mouse

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486DX2-66 MHz Intel	$1258
486DX2-80 MHz AMD	$1228
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Diamond Stealth 64 1/2MB DRAM VLB	125/169
Diamond Stealth 64 1/2MB DRAM PCI	119/169
Diamond Speedstar Pro VLB	89
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#9 GXE 64 Pro 2/4MB	359/529
ORCHID Kelvin 64 1MB	129
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ET 4000 1024x768 NON-INT.	79
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Trident VGA (1024x768) 1MB	65
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IDE I/O VLB Hi-Speed Serial	49
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Adaptec 2940 SCSI PCI	215
Adaptec 2940W Wide SCSI PCI Kit	275
Adaptec VLB 2842VL w/Software	215
8 Bit SCSI Card	49
Promise Caching VLB Controller	
DC-420 512K Upgradable 1MB	95
DC-4030 to 16MB	105
EIDE 2300 Plus 4HD/2S (16550)/1P	59

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AT I/O (2S 16550/1P/1G) Hi-Speed	$39
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Printer Card	12
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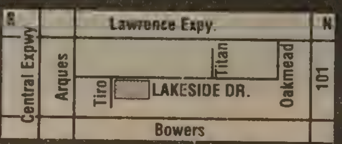

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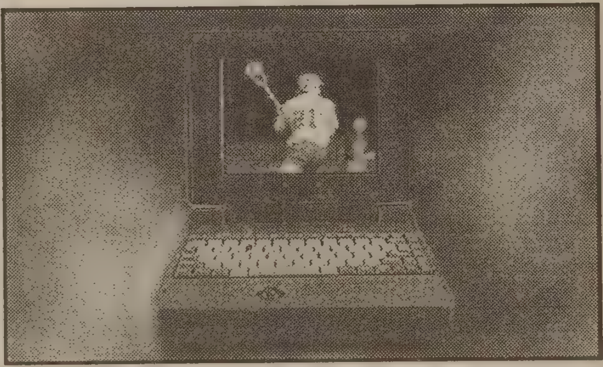

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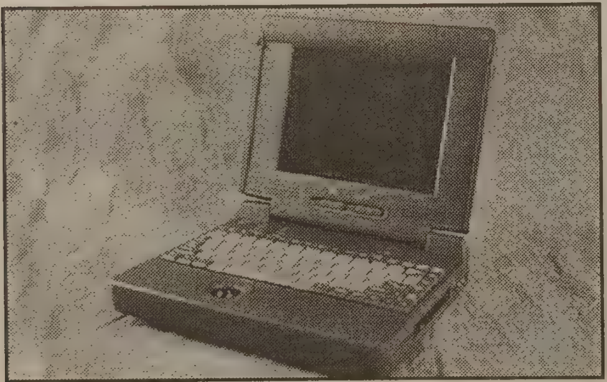

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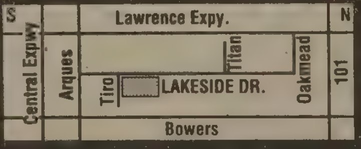

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1280x1024	16	60, 72, 75
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industries and books? Is film the next casualty on the information superhighway?

Most likely, the answers to all these questions is no. Or to paraphrase Mark Twain, the rumors of the death of film are probably premature. Certainly, digital technology is generating great changes throughout the entire genre of storytelling and movie making—how they are made, distributed, and stored as well as in the content, restoration, and preservation.

The American Film Institute, located in the hills adjacent to Griffith Park overlooking Los Angeles, sits in a pivotal position in the midst of these changes—working closely with key innovators, artists, and decision makers from Hollywood and Silicon Valley, along with independent filmmakers, video artists, and multimedia developers.

Founded in 1967 as a national trust, AFI's mission is to identify and train the image makers of tomorrow, to preserve the heritage of the American Film Institute, and to celebrate the art of the moving image.

"Training has always been a major function of the American Film Institute," explains Robert Schwarzbach, director of the Professional Training Division. "We have a two years master's program for filmmakers here as a conservatory. It is much more of an actual hands-on program than the theoretical kind of filmmaking that you get at UCLA or USC. Students here produce their own films in the first year. Eight are invited back to do full feature-length films in the second year."

Through a $1 million donation from Apple, the AFI-Apple Computer Center for Film and Videomakers was opened in 1991 to incorporate desktop digital tools into its training programs. AFI has continued to build its relationships with technology companies and by 1995 more than 125 companies, including Sony, Kodak, Adobe, SuperMac, and Radius, had contributed hardware, software, and services.

In an environment of rapidly evolving digital technologies, AFI has had to rethink how its training programs are organized. And in 1994, Robert Schwarzbach was hired to head AFI's Professional Training Division. Before joining

Film In A Digital ★ge

Robert Schwarzbach Discusses Digital Technology, Filmmaking, And The American Film Institute

By Michael Robin ★ Photos By Greg Allen

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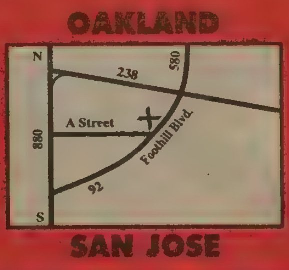

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Film In The Digital Age... *continued*

This technology opens up the ability for more non-Hollywood types to be creating really excellent content.

the staff at AFI, Schwarzbach was the director of education for the Center of Creative Imaging (CCI) in Camden, Maine. CCI, set up by Kodak and Apple, is geared toward print and photography, focusing upon still image and digital manipulation.

"Why they hired me," says Schwarzbach, "is because I can run a program and design a curriculum, not because I am the best, hottest digital video maker. The tools are the tools, and anybody can learn them. The boundaries between traditional photography and filmmaking and traditional graphic arts and filmmaking are breaking down. If you know how to use type, if you know what colors are, if you know composition, if you know tension within an image, timing, those are concepts that are universal throughout anything that involves an image."

What is the Professional Training Division at AFI?

The Professional Training Division, which is the division that I head, is the extension portion of the training that we do at the American Film Institute. We do short intensive courses for professionals who want to sharpen up their skills or for people who are looking to make career changes. AFI's Advanced Technology Program has been a major portion of this for the last three years. This year we have understood that there really isn't a distinction between traditional film and television arts and advanced technology. You can't go anywhere in filmmaking without seeing a computer. It was sort of silly to make this distinction anymore, so we've merged the Advanced Technology Programs and Professional Seminars and Workshops programs together and called it the Professional Training Division.

The program has about 120 classes a quarter. We have seventy-three outside instructors, usually working professionals in the field, that come in and teach, as well as a teaching staff here on site. We have just recommitted our relationship with Apple and expanded our relationship with both Silicon Graphics and Microsoft. We now have a second digital video laboratory and are also going to have a Microsoft Pentium classroom here, this year. Silicon Graphics opened their own training facility in Santa Monica, called Silicon Studio. At Silicon Studio they're really focusing on special effects. We continue to show cinematographers Silicon Graphics machines, *in context*. Lighting technicians, cinematographers need to know what the Silicon Graphics machine can do for pre-visualization of films.

Looking ahead, what we are trying to do is regularize the program. We will be accredited by next year as a destination program, which is different. The two years masters program in filmmaking has stood separate from the Professional Training Division. We'll be merging much more heavily in the fall and will be offering a multimedia degree, a full accredited degree here by '97.

Does the technology change how people tell stories?

No, but it allows people to tell stories that they are proud of. In other words, when someone can come in and see how easy it is to create a very professional-looking production of their own. When it really is a wonderfully compelling, interesting story, people are pretty impressed.

You mentioned the vision and goals of the program. Is your audience changing?

I think that the entire industry is changing. There used to be very rigid job descriptions for people who are in the industry—you are a grip, a best boy, a cinematographer, a special effects artist. That's all changed, especially around the convergence of multimedia, interactive television, any of those kinds of things.

At the American Film Institute we pride ourselves on the idea that we know the one hundred years of the history of storytelling [on film]. Rather than (not denigrating Sammy's Camera) being Sammy's Camera where "we are going to show you all the tips and tricks of Photoshop," we are trying to show you how Photoshop is one of the tools that an artist can use in the production of a film, a television series, or a multimedia product. So, we are much more concept oriented than specific tools oriented in the classes that we try to teach.

The audience has changed simply because "I used to be a photographer, and now I want to be a multimedia artist." Everybody sees multimedia as this huge catch-all, and that's great. It has liberated us from "well, you can't do this because you only know this in traditional filmmaking."

Are most of the people coming here still from the film industry or...?

We use the term very broadly, the American *Film* Institute—that it is moving image as a concept, which means any images that move—video, film, multimedia. We use it as a big term, rather than film as "35mm film going through a projector." So, yes, we mostly have people who have worked with the moving image of the past coming here, but that's changing. We have younger and younger people who have never dealt with film or even traditional analog video editing, who have learned the art of storytelling from working completely digital, nonlinear from the beginning.

Is their approach to storytelling different from traditional filmmakers?

I see that most young moving image artists emphasize the visual over the narrative. Dialog is minimal, environment and texture are more important to these people. But, as their elders learned, you have to have compelling characters and a plot to hold interest over two hours.

With the technology and tools evolving so quickly and your course offerings growing, how do you decide what to teach?

We know that you need to know how to tell a

Film In The Digital Age... *continued*

story, know how to design something on the screen, how to use type, how to use color, what an audience expects, how they react to something emotionally. All of those things are concepts, rather than tools. We will then teach you how to use Photoshop, or Painter, or Faux, or Live Picture to do those things. But really, we try to get away from "and did you know if you hold down five options keys and stand on your head you'll get these three Easter Eggs," because that changes every month, and we can't keep on top of that. We really want to get back to the idea that no matter what the tool that you use is, this is what you need to know—you need to know about type on the screen, this is what you need to know about color and timing and emotional responses and those kinds of things.

So, how do we decide what to teach? We have a series of core courses that we always teach. But every quarter we have, for instance, someone who needs to know about DeBabelizer. So, this quarter we have a couple of DeBabelizer classes because that seems to be a hot product that everybody doesn't know much about.

We hear from our instructors. Every quarter we have an instructor dinner where we invite everybody in and they tell us what's new in the industry. They tell us. We also have our Tuesday night salons hosted by Michael Backes, Scott Billups, Harry Marks, and Allison Thomas. These are the people who are going out and finding the best and the hottest new companies and their new products. They come in, they show it, we integrate it into our classes if we can.

Could you say a little more about the salons and the sorts of products people are introduced to there?

The Computer Media salons are held the first three Tuesdays of the month.

The first-Tuesday of each month is the Cutting Edge salon hosted by Michael Backes, screenwriter on *Rising Sun* and *Congo* and graphics supervisor on *Jurassic Park*. The second Tuesday is our Interactive Hollywood salon, led by Harry Marks, president of Marks Communication. The third salon of the month, called Reinventing Hollywood, is hosted by Nick DeMartino, AFI's director of strategic planning.

This summer's salons are especially exciting and diverse. In May, the Reinventing Hollywood salon explored Web sites and Hollywood's involvement. Guests for that salon included Leonard Washington of Paramount's Star Trek Voyager Web site page, Dave Dolgin of MCA's Cyberwalk, and Charles Como of IUMA (Internet Underground Music Archives), where a lot of the record companies have their Web site pages.

At the June Interactive Hollywood salon will be Martin Behrens, director of interactive features at Sony New Technology, who oversees, develops, and produces interactive motion pictures for release in specially equipped theaters. Also, in June, in our Cutting Edge salon, is Thomas Tolles of Viewpoint Datalabs. They're the creators and producers of 3-D models for such films as *Species, Waterworld, Batman Forever,* and *Outbreak.*

The salons are very diverse and a good place for professionals to learn what's new in their field, and for novices to sample multimedia, interactive, and special effects technology.

Is this part of what differentiates you from either UCLA Extension or smaller arts organizations?

What differentiates us is that we have the top-of-the-line equipment here. We have the best equipment that you have in any classes—full digital video in and out, full film capabilities, all the online and off-line editing systems, and our students can use them. At UCLA, you may be sharing that computer with somebody and that computer may be six years old. We want a commitment to be state-of-the-art.

But even being state-of-the-art, most of the technology here is pretty vanilla, consumer-level stuff?

Right. AVIDs, Media 100 Composers, etc. There is no proprietary equipment on campus.

Do you ever watch *Movie Magic*, the TV show on Thursday nights? If you watch any of the shows on how movies are made, there are Macintoshes, PCs, and Silicon Graphics machines sitting around. Yes, it's consumer-level technology. Nobody is building boxes anymore to do this stuff. That happened twenty years ago, but nobody does that anymore.

Until recently AFI administered a subgrants program for Independent Film and Videomakers through the National Endowment for the Arts. Have other programs been cut and what has been the impact?

We recently closed our Washington, DC offices. Our total budget was cut about 10.5% from cuts by the federal government. This is huge amount for an organization to absorb i one year.

It has given us a big kick in the butt t change the way we've been delivering our programs, and technology is the core that we ar going to build around. We know that we can b a huge presence on the World Wide Web an we can use that technology for teaching classe and salons through distance learning. I thin we are going to come out of it better an stronger, more of a national institution than w were before.

One way AFI has become stronge is through more partnerin with industry'

Absolutely, more partnering with industr And because of the convergence of Hollywoo and Silicon Valley and telephone and communications, it is very easy to go to Paramount o Disney and say, "OK, we want to do a program together that not only is going to be at a destination park but is also going to be on your new network and your new phone service and your new cable service," those kinds of things. They are excited to be able to partner with us to get new content out.

Looking at the impact of digital technology, have there been differences in who is accepting the technology and who isn't?

I don't see that. I don't see people really rejecting it outright. They are more afraid of it because they don't understand how to control it. When they say they are rejecting digital technology, what it really means is, "Because I don't know how to use it and I don't know how it is going to impact anything, I am just not going to deal with it."

I don't think anybody doesn't believe that it is the future of filmmaking.

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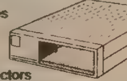

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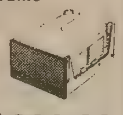

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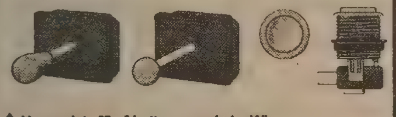

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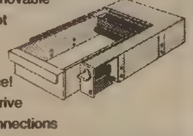

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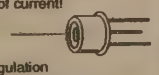

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Film In The Digital Age... *continued*

Perhaps resisting is a better word than rejecting?

Resisting, absolutely. It is fear because, if you buy the hype, and I tend to buy it, about the idea that all of a sudden this technology opens up the ability for more non-Hollywood types to be creating really excellent content, they don't have control over that excellent content anymore.

However, all I see is that the pie is getting huge—not that the pie is being divided up in different ways, and they are going to be losing pieces of it. The resistance is more about not being able to control how it is going to go. Ultimately, I think everybody is going to benefit.

We have a lot of old-time Hollywood coming here. I just taught an imaging course on beginning Photoshop. Leslie Stevens, the original producer/director of *Outer Limits*, was in that course. Mr. Stevens is seventy-five years old, here learning and embracing it. He is launching his new *Outer Limits* show on Showtime and creating two or three new things. He needs to know what VR is and what digital technology is because that is the science fiction of tomorrow. One thing I think about digital technology that is really wonderful is that anyone can learn it.

From your vantage point at AFI looking upon the convergence of technologies, what is the impact upon content itself rather than simply doing old things more efficiently with new tools?

I am a firm believer in the third-wave theory. We are in the first wave of the technology now, doing old things with new tools—like the beginnings of filmmaking when they were just filming stage plays. The second wave is where the tools themselves are generating new ideas. You look at something like *Myst* or even the stuff coming out of Inscape and Ion, or *Johnny Mnemonic* and those types of titles in multimedia, the very essence of interactivity is built into the story experience. It changes the way you tell a story.

I also believe that there is a huge myth of interactivity. I think it is bullshit that I am going to have five choices, then I am going to have ten choices, then I am going to have a hundred choices, and the computer is going to be able to hold all of that. I don't want that game! Wandering around endlessly doesn't interest me. That's called life, I do it every day.

Ultimately storytelling is about *you telling me a story* and *taking me on an adventure.* I might have some input into that world, but ultimately in *Myst* you had a goal; somebody had to structure the narrative there. I think that *endless* interactivity is not going to go very far. What we are going to come back to are personal visions about worlds. You may be a part of the experience but it still comes back to the storyteller.

We are going to see Hollywood change very soon to digital distribution of films.

Digital technology impacts films in three major areas—the back-end production or making of something; delivery, both the platform and distribution; and front-end or the viewer experience.

But also the underlying infrastructure, which is something that we also teach here but is not a very high-glitz thing—managing the database, managing the production and finances, managing the continuity of a scene. Having information systems has meant that much more complex films could be made. For example, John Badden, who did *Drop Zone*, was here showing all of the Macintosh applications they had developed so that he could track all of the incredibly complex stunts they were doing for the film. People were being dropped out of airplanes. If you blew the shot it was $500,000 to put that airplane back up with those forty people in it. So, the computer not only does all of these other things, but also provides an underlying information infrastructure. I need to mention this because it is an important part of filmmaking. Film is nonetheless a business and it has been the last business to embrace information management.

The other thing is about distribution. James Cameron was here on campus the other day talking about *True Lies.* He edited most of that film himself sitting at an AVID film editor, which of course, all the film editors hated to hear. Nonetheless, that film was really much more of his own vision than previously possible, simply because the technology is here.

But I thought his most interesting comment was "Yeah, we can talk about computers in special effects and we can talk about computers in film...but the real way it is going to change the way Americans interact with film is in its distribution." Right now we spend about $1 billion a year in release prints. So for every cineplex that is showing *True Lies,* its costs $45,000 to make the print that they show. But that print will only last about three months before it has to be destroyed. So, if it takes $1 billion to convert every cineplex for digital distribution, that's $1 billion dollars once. But the very next year they've saved $1 billion. The year after that, they've saved $2 billion.

We are going to see Hollywood change very soon to digital distribution of films, which means two things. First, you can have more choices at your local cineplex. They'll be able to show five different films in a day in one theater, if that's what they need to do. We are also going to see more independents be able to have their films shown. Right now, the cineplex manager says, "I paid $45,000 for *True Lies.* I am going to run it for four weeks no matter what, even if there are six people sitting there. I cannot change over because it is a physical medium—I have to take off the spool, put a new spool on, and all of that kind of stuff." Well, this change will let you have two midnight shows of foreign films. The distributors themselves are going to have much more choice and the audience is going to have much more choice when we move to electronic distribution of films.

The theater offers an experience—a high-quality presentation in a particular environment. If it is being delivered digitally, will it be equally high quality?

I have two comments about that. How many cineplexes have you been in that by the second week of the show you are seeing nothing but black streaks, popping and crackling, and five frames are missing in the first five minutes? We have this myth of the perfect release print. Yes, James Cameron sees it the day that it comes off

continued on page 257

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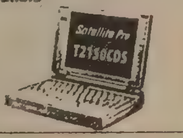

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486DX2/50	10.4" Active	520MB	2848
486DX4/100	10.3" Dual Scan	340MB	2878
486DX4/100	10.3" Dual Scan	520MB	3098
486DX4/100	10.4" Active	340MB	3278
486DX4/100	10.4" Active	520MB	3478

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486DX4/75	8.5" Dual Scan	170MB	2748
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HP DeskJet 560C	478.00
HP DeskJet 1200C	998.00
HP DeskWriter 320	288.00
HP DeskWriter 320 W/Sheet Feeder	358.00
HP DeskWriter 540	288.00
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Pentium Power With PCI Bus

TravelMate 5000

- ◆ PCI bus Architecture to optimize Pentium processor performance
- ◆ 2MB Video RAM
- ◆ 16-Bit Sound, speaker, microphone & MIDI

Processor	Screen	Hard Drive	Price
Pentium 74MHz	10.5" Dual Scan	500MB	$4898
Pentium 75MHz	10.4" Active	772MB	5498

TravelMate 4000M

- ◆ Brilliant color display
- ◆ 2Type II ot 1 Type III PCMCIA slots
- ◆ 16-Bit Sound card

Processor	Screen	Hard Drive	Price
486DX2/50	9.5" Dual Scan	340MB	$2068
486DX2/50	8.4" Active	455MB	2298
486DX4/75	9.5" Dual Scan	455MB	2398
486DX4/75	8.4" Active	340MB	2648
486DX4/75	8.4" Active	455MB	2898
486DX4/100	9.5" Active	525MB	3798

Versa P NEC

Lowest Priced Pentium NoteBook

- ◆ 2 Type II or 1 Type III PCMCIA slot
- ◆ Removeable HD, Floppy, & Screen
- ◆ Integrated speaker & microphone

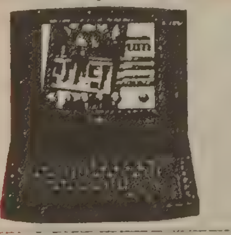
Processor	Screen	Hard Drive	Price
Pentium 75	9.5" Active	340MB	$2798
Pentium 75	9.5" Active	540MB	4548
Pentium 75	9.5" High Res.	540MB	4898
Pentium 75	9.5" Active	540MB	4898
Pentium 75	9.5" High Res.	810MB	5348

Versa M

Highest Resolution & True Color Display

- ◆ 2 Type II or 1 Type III PCMCIA slot
- ◆ Removable HD, Floppy, & Screen
- ◆ Integrated speaker & microphone

Processor	creen	Hard Drive	Price
486DX4/75	9.5" Dual Scan	340MB	$2698
486DX4/75	9.5" Active	540MB	3398
486DX4/75	9.5" High Res.	540MB	3798
486DX4/100	9.5" True Color	540MB	4148
486DX4/100	9.5" Active	810MB	4248
486DX4/100	9.5" /High Res.	810MB	4648



NEC "V" for Value

Processor	Std/Max RAM	Screen	Hard Drive	Price
486DX2/50	4MB/20MB	9.5" Dual Scan	250MB	$2198
486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	2348
486DX2/50	4MB/20MB	9.5" Active	250MB	2348
486DX2/50	4MB/20MB	9.5" Active	340MB	2548
486DX2/50	4MB/20MB	9.5" Active	540MB	2848
486DX4/75	4MB/20MB	9.5" Active	340MB	2748
486DX4/75	4MB/20MB	9.5" Active	540MB	3048

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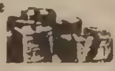

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Optra Lx 16ppm @ 600 dpi, 4MB max 64MB, PSL2 e PCL5, 87 fonts 404916L $2448

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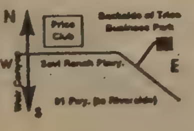

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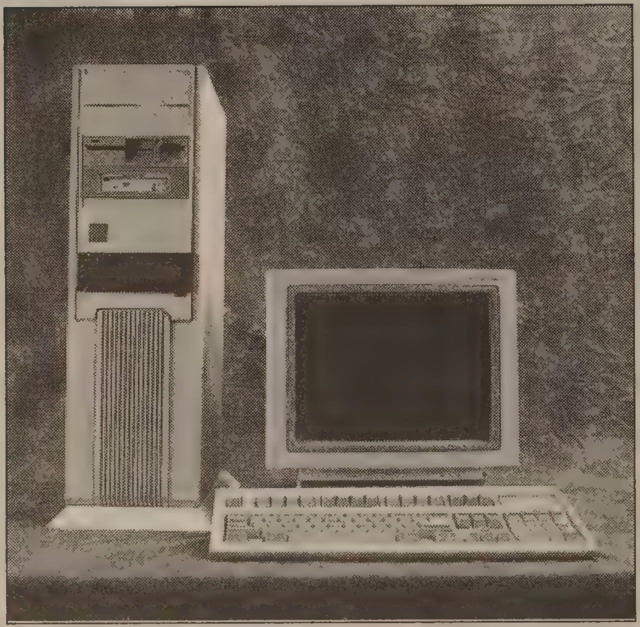

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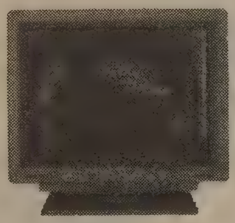

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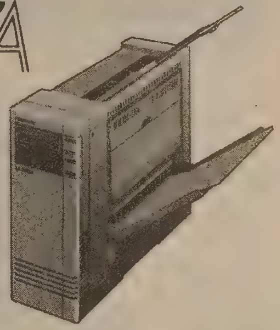

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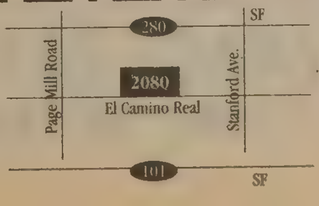

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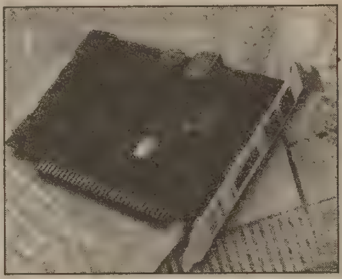

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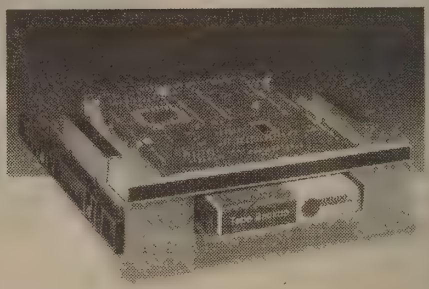

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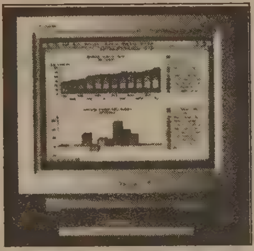

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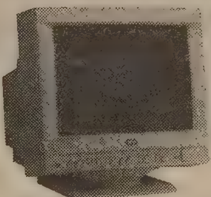

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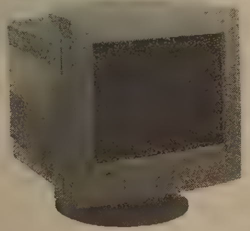

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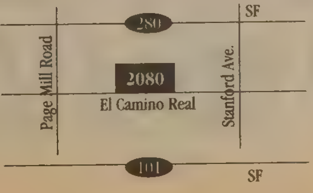

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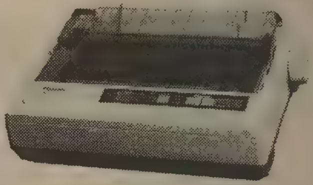

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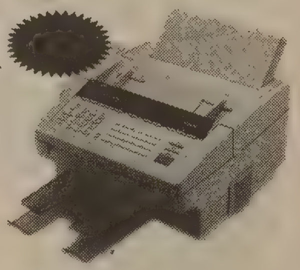

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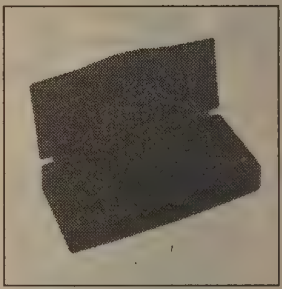

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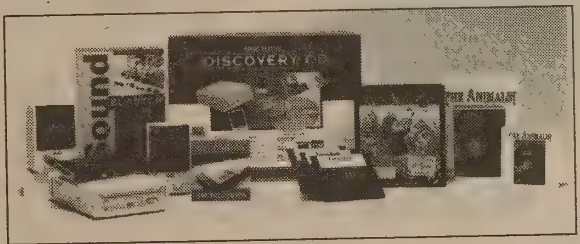

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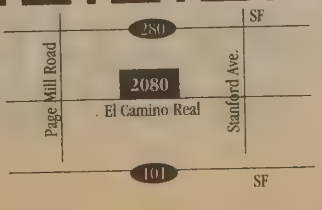

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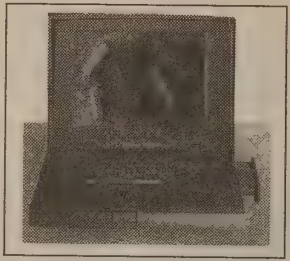

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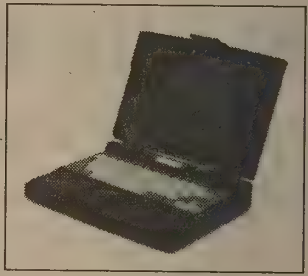

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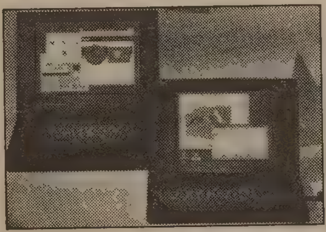

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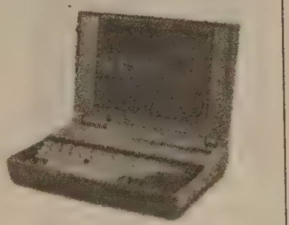

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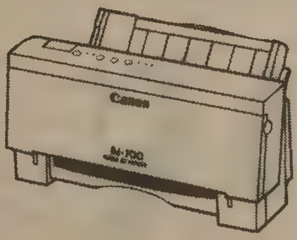

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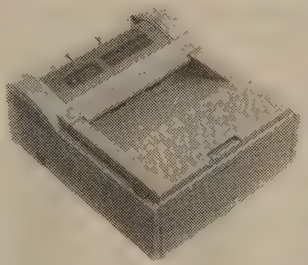

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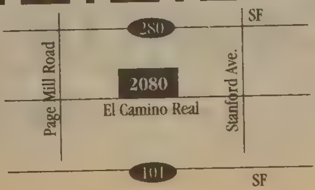

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BMUG Meets The Mac Clones

Plus The Death Of Lisa, And Other Spring Follies

By David Morgenstern

Spring is moving into summer, the California hills are turning brown, and a fresh crop of Macintosh models is hitting the streets. But this time there's a twist—clones!

The new Mac clones are finally here, but you'll be hard pressed to hear that exact term from the vendors. They prefer instead to call their products "Mac-compatibles." Excuse me! A clone by any other name...

In addition to a once-over on the forthcoming clones, we've got some BMUG tips, news snippets, and shareware. Onward!

Clone Soup

Over the past ten years we've grown used to seeing the Mac operating system simultaneously with Mac hardware. Just as we have bread and butter, salt and pepper, and Yin and Yang—other than the odd, now-defunct Amiga computer running Mac software in emulation, the only way to get the Mac OS was to buy a box from Apple.

But that has changed with the arrival of different flavors of Mac clones. They will give users plenty of options at the low and high ends for cost, system design, and software bundles.

Unlike the PC market where most of the clone business battles away at the bottom, the Mac clone vendors will offer high-performance models targeted at specific applications, such as digital video, prepress, or 3-D graphics. Apple hasn't ignored less-traditional markets and it has handed off its game machine designs to a third party.

Here's a run-down of the clone lineup so far:

- The low-priced side of the street is from **Power Computing Corp.**, headquartered in Milpitas. It is starting to ship its first clone models, called the Power 80, 100, and 110, which are similar to Apple's current Power Mac 7100, 8100/100, and 8100/110 machines, respectively. The prices are expected to run around 10–20% less than comparable setups from Apple.

Power (the company) said it expects to sell about three thousand units from May through June so it can shake out the glitches from its support and manufacturing operations, then come up to full production speed in July. The company is estimating that it can ship around one hundred thousand clones this year.

The boss of the enterprise is Stephen Kahng, who was the guy behind the popular Leading Edge PC computer. Olivetti in Italy is also an investor in the company. This heavy-duty PC background would usually not encourage the hearts of Macintosh fanatics, but Kahng has brought on board many people with a lot of Mac experience, including some guys from APS Technologies, a mostly Mac drive-vendor long on BMUG's Choice Product list.

The Power machines are not going to be sold in stores, but through mail order. Almost all of the models will come standard with a 24-bit video card, a built-in four-speed CD-ROM player, and a keyboard. They will also have lots of software bundles.

When you call them up, you'll have lots of options to play with, including high-capacity hard drives, CD-recordable drives, extra RAM, and additional software options. You can even order a monitor. They said they will have monthly bargain specials *á la* Gateway 2000. Hey, push the meatloaf!

I've seen the Power 100 and it worked great; in other words, just like a Mac. The desktop was the Mac desktop and all the programs ran perfectly. It was beyond Mac-compatible. It was simply a Mac.

From the outside, it also looked fine—albeit a little weird. Like everyone else, I've been conditioned to seeing Mac hardware styling surrounding my software interface, and although the Power model is a fine box (much better than the run-of-the-mill PC clone enclosure), it doesn't have the refined flair of Apple's award-winning industrial design. The PC side of the family ancestry is especially evident from the rear.

Some students may benefit from the clone look, as well as the price savings (however, we will see if the clones can beat Apple's dynamite educational prices). Many campus thieves focus on hauling off more-popular Macs and are known to leave PC clones alone, so owners of Mac clones may find their desktops staying on the desk where they belong.

- **Radius**, a longtime player in the Mac world, will make the scene this

continued on page 259

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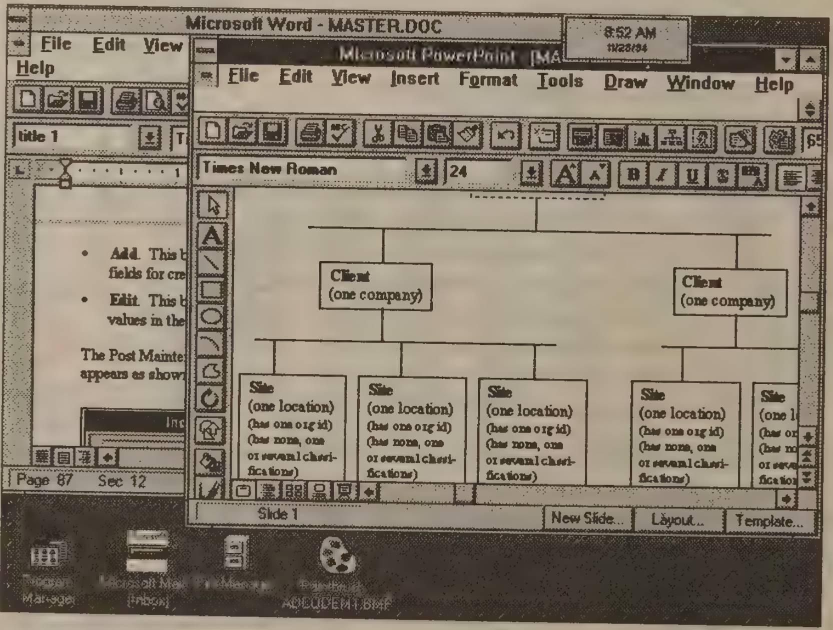
Learning Windows: Running Multiple Applications

Task Switching Is Not As Powerful As Multitasking But Offers Many Benefits

By Mitch Gordon

Although not always obvious to new PC users, the ability to have several application programs open at the same time is one of the most important features of Windows. The ability to run multiple applications makes it possible, for instance, to start a document in your word processor, then open other applications such as a spreadsheet program, personal information manager, and/or electronic mail, and move between them.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In the pre-Windows world of MS-DOS this sort of operation was never smooth. If you were working on a report in WordPerfect but needed to check figures in a Lotus spreadsheet you would first need to exit all the way out of WordPerfect, open your spreadsheet, close that up, and reopen WordPerfect to continue working. In Windows, a spreadsheet, PIM program, and word processing document can be open at the same time in separate windows. A single mouse click anywhere in the window you wish to work in activates that window, leaving the other windows onscreen in a state of suspended animation until you return to each of them. You no longer need to waste time opening and closing applications as you move between them.

Multiple applications capability, also known as task switching, provides other benefits as well. Copy-and-paste (or cut-and-paste) is the ability to take text or graphics from one place to another within a document, or from one document to another. This also works reasonably well as you move between dissimilar applications (such as word processors and spreadsheets) and between applications from different companies. When multiple application windows are open on your screen, you can view the source and destination points, select the text or graphics from one and paste into the other, and then move to other points in either of those documents or others to repeat the process.

Task switching is not as powerful as true multitasking (see sidebar), which is a feature which will arrive with Windows 95 (hopefully soon!). Nevertheless, it is a very beneficial feature and well worth the small investment in time required to learn it.

How Task Switching Works

Windows is designed to allow the user to open as many applications as he or she chooses (subject to memory availability, the lack of which makes applications slow and cranky when too many windows are open, but this shouldn't generally be a concern). Each application when opened—that is, when its application icon is double-clicked on in the Program Manager—appears as an application window. As you open additional applications each new window opens up on top of the others. It may partially or completely obscure them, but they are still there.

Only one application is actually running at a time in Windows; the others, as mentioned earlier, are frozen in a suspended state. The application window in use is known as the active window; all others are considered inactive. The active window is distinguished from the inactive ones by its brighter colors, and also by the fact that it is "on top," that is, it overlaps the inactive windows rather than being overlapped by them. Clicking anywhere on or in an inactive window brings it to the front and makes it the active one.

An application window, whether active or inactive, can cover the entire screen, or some user-defined portion of the screen, or exist only as an icon at the bottom of the screen. These are the maximized, restored, and minimized states, respectively. You maximize (cover the screen with) an application window by clicking on its maximize button, which is an upward-pointing triangle symbol at upper right in the window. You restore (cover part of the screen with) a previously

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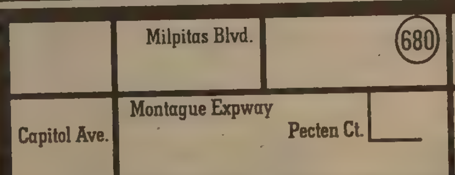

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maximized window by clicking on its restore button, which is a pair of upward- and downward-pointing triangles at the upper right. You minimize an application window to an icon by clicking on its minimize button (downward-pointing triangle). From the minimized icon state, an application is returned to its maximized or restored state (whichever it was previously in) by double-clicking on the icon.

> Only **one** application is actually running at a time in Windows; the others, as mentioned earlier, are frozen in a suspended state.

Note that minimizing and closing an application are two different things. Closing an application (which you accomplish by double-clicking on the Control Box at upper left, or selecting Exit from the File menu) shuts down the application and any documents you had open in it. Minimizing, in contrast, keeps the application and its document or documents open, but in an inactive state in a small, out of the way, icon. A minimized icon is functionally no different from an inactive window; it just takes up less space.

In its restored (partial screen coverage) state, an application window can be resized by dragging its edges in or out with the mouse pointer, and the entire application window can be dragged up or down or to the sides by dragging the title bar. This provides the simplest and perhaps most often used technique for getting around between application windows—size and place each window so that there is a minimum of overlap, and then click back and forth between application windows to activate each in turn. This technique is especially good when you need to copy-and-paste between applications.

A second benefit, also heavily used, is to minimize an application to an icon—moving a document out of the way without closing it. Minimized icons will form a row at the bottom of the screen, each identified by the icon symbol of the application. This technique helps clear up the clutter created by having groups of windows open, and makes it easy to find a particular document or application.

Program Manager itself is an application window which can be minimized to an icon, or resized and placed when in its restored state. Of all windows, the Program Manager is the one most likely to get in the way and obscure other windows. New applications are opened from the Program Manager window, typically keeping the Program Manager just underneath the

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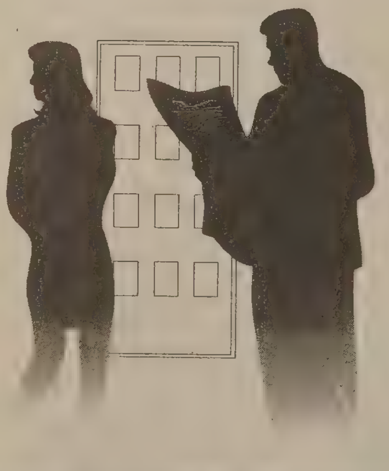

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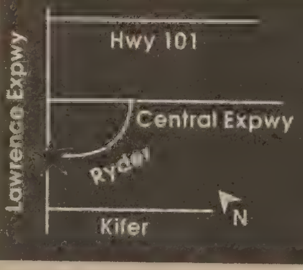

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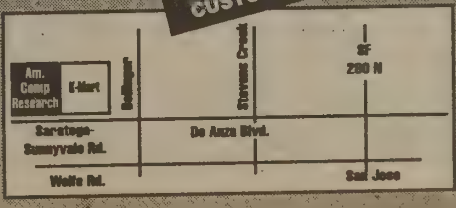

top, active application you just opened. Although you can minimize the Program Manager window manually via its minimize button, Windows will automatically minimize the Program Manager whenever a program is launched. This is done by selecting "Minimize On Use" in the Options menu.

If, however, you choose to keep the Program Manager window in its restored rather than minimized state, you should size it so that there's about an inch of blank space below it at the bottom of the screen. This leaves space for the icons from other minimized applications to remain visible.

Using Multiple Applications—An Example

Let's run through a concrete example of a situation in which multiple applications are used. As a writer I frequently import illustrations into manuals I am working on. In this example my manual is in Microsoft Word, I have some flowchart diagrams to import into Word from Powerpoint and some screen captures in Windows Paintbrush. I open Word from the Program Manager by double-clicking on its icon. Word maximizes on the screen when opened; I want it smaller to make room for Powerpoint and Paintbrush so I click on the restore button and drag the edges of Word's window in about 1/2" from the edges of the screen.

The Program Manager is sitting just beneath Word (I didn't have Minimize On Use set—if I had, the Program Manager would be an icon at the bottom of the screen). To launch another application—Powerpoint—I click somewhere on the Program Manager window where it peeks out from underneath the Word window. This makes the Program Manager active and hides Word. I can now launch Powerpoint from its Program Manager icon. The Program Manager, now sandwiched in the layer between the Powerpoint window and the Word window, is getting in the way; I minimize it by clicking on its minimize button.

Now we have both Word and Powerpoint open as application windows, and the Program Manager minimized to an icon at the bottom of the screen. I arrange and resize the Word and Powerpoint windows so that neither covers up the other completely. I click on the Word window, perform a File:Open operation to load my manual into Word, and locate the spot I want to insert my first flowchart. Next I click on the Powerpoint window to make it active, load the presentation file containing my flowcharts into Powerpoint, and locate the slide that contains the flowchart I want to copy into my manual. I select the slide with the mouse, choose Copy from the Edit menu, switch to Word, position the insertion point with the mouse, and select Paste from the Edit menu.

(Note that there are other ways to import a Powerpoint graphic into Word, such as embedding it as an OLE object or linking the graphic as a file in Windows Metafile format, but that gets well beyond us here.)

Now my first flowchart is imported into Word. I can move to another point in the manual, locate a different slide in Powerpoint, and import again. Or I can open up a third application, such as Paintbrush, to import something else into Word. I can move Powerpoint out of the way temporarily by minimizing it to an icon, and bring it back later, still positioned to the same slide, by double-clicking on the icon. When I have placed all the graphics into Word, I save my Word document, close Word, close Powerpoint, and close Paintbrush, leaving me with only the Program Manager open.

Additional Benefits And Techniques

Although you can accomplish almost all of your multiple applications work using these two techniques (clicking from window to window, and minimizing a program) there are three other techniques you should know about for moving between open applications. One is Alt-Escape switching. If you hold down the Alt key and press Escape, the next layer of windows will become active and come forward. Repeating this key combination causes each application window to come forward in turn until you cycle through all of them. Alt-Tab switching is almost the same, except that you see a descriptive label come forward for each application in front of the application so you can more quickly see which application is which.

Finally, there is the Task List. The Task List (or Task Switcher) shows you, in a small window, a list of all open applications. A group of buttons at the bottom of the Task List window provides actions that you can perform on the application that you highlight in the list, such as go to that application or close it, as well as actions that affect all applications such as Tile or Cascade windows. The Task List is activated by single-clicking on the Control Box—that's the square at upper left in your application window, containing a horizontal rectangle symbol—and then selecting Switch To from the resulting menu.■

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MULTITASKING VS. TASK SWITCHING

Multitasking is the ability for multiple applications to perform work at the same time. A true multitasking system (the technical term is "preemptive multitasking") lets you start up one application and switch to another while the first application continues to run. The abandoned application, rather than becoming inactive, is said to run "in the background." UNIX, OS/2, and Windows NT, as well as the forthcoming Windows 95, are true multitasking operating systems.

A task-switching (technically "cooperative multitasking") operating system allows you to leave a running application and work in a different one, but the abandoned application can perform no work. It remains in a state of suspended animation until returned to. Windows 3.1 and Macintosh System 7.5 are task-switching operating systems.

Multitasking is better than task switching because there are certain kinds of work that involve opening an application and waiting for the results. File downloads from a bulletin board service are another example, as well as sending or receiving a fax. Another is generating a large print job, or producing a report from a large database. In Windows 3.1, when you begin a time-consuming process like this, your computer is tied up until it finishes. In a true multitasking operating system, after launching a time-consuming process you can turn to another application and continue working.

> If you hold **down** the Alt key and press Escape, the next layer of windows will become active and come forward.

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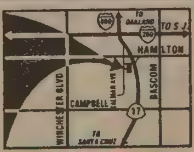
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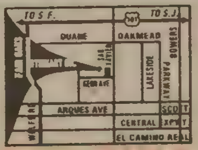
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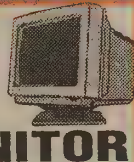

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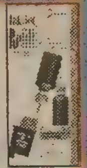

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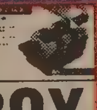

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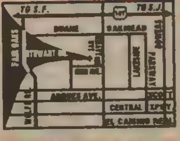

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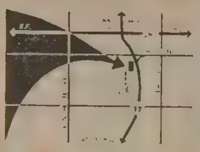

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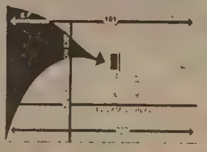

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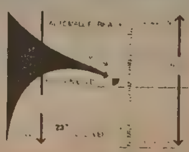

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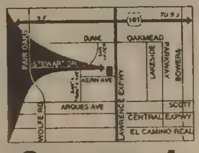

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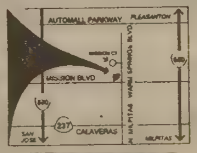

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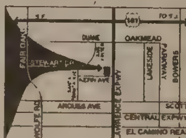

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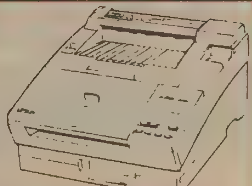

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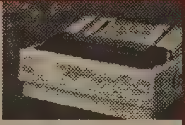

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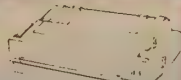

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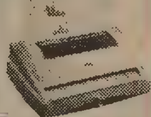

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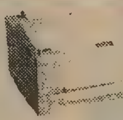

digital DEC Laser 3500 POSTSCRIPT LEVEL 2 LASER PRINTER

- 12 pages per minute
- True 600 x 600 dpi resolution
- Dual Platform printer, PC and MAC
- 3MB Ram expandable to 19MB
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- 600 X 600 dots per inch
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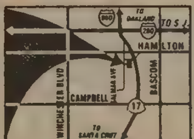

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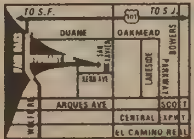

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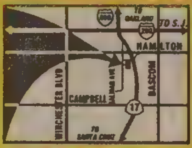
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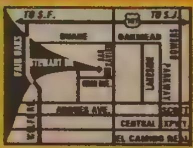
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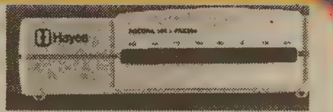

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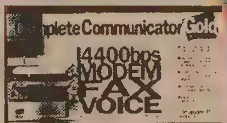
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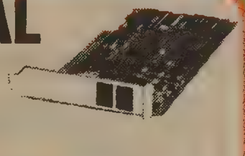

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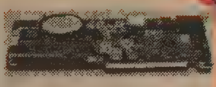

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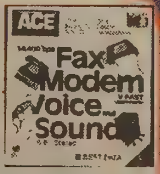
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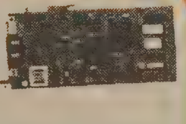

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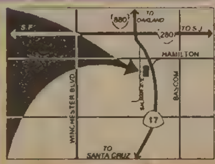
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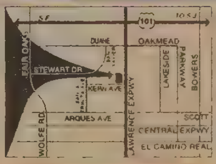
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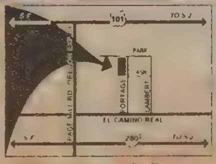
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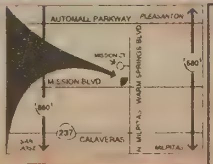
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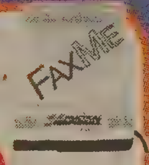

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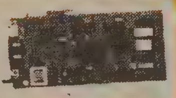

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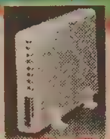

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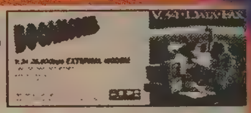
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- V.42bis Data Compression for Throughput up to 115,200bps
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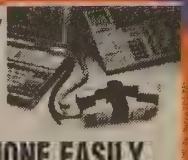

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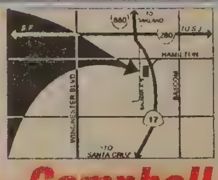
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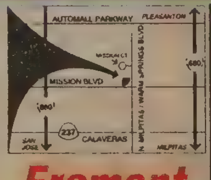
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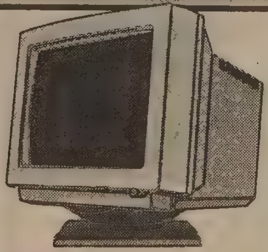

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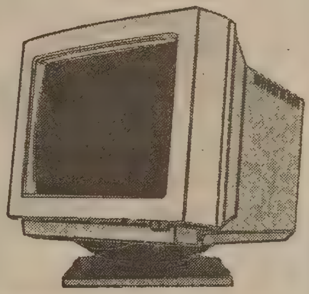

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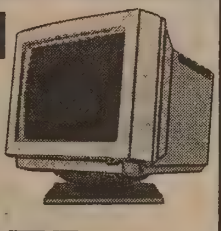

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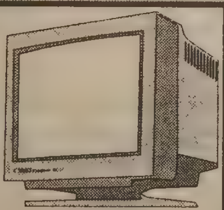

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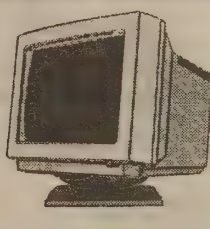

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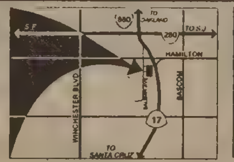
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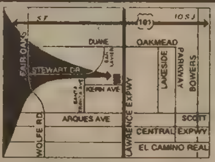
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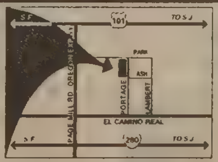
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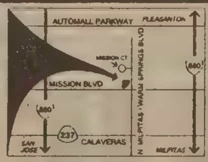
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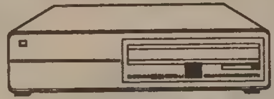

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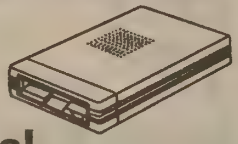

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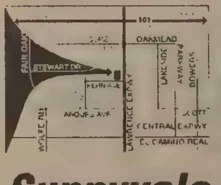
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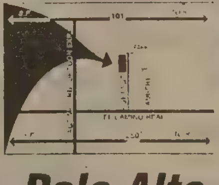
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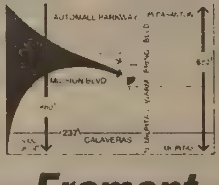
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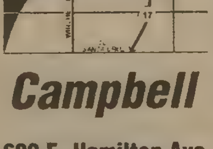
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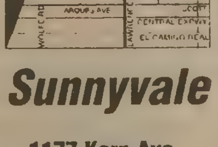
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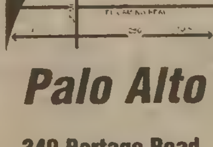
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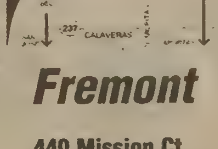
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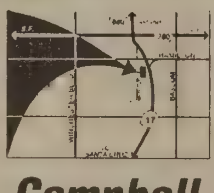

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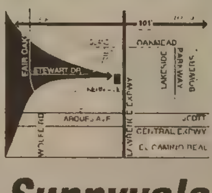
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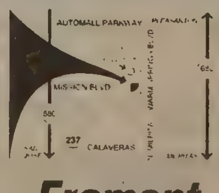
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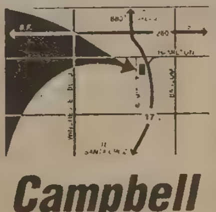
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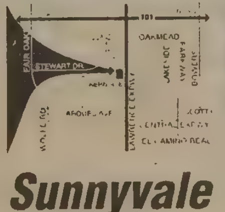
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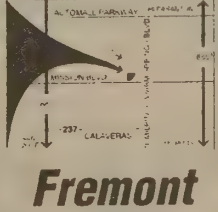
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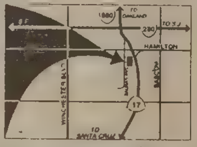
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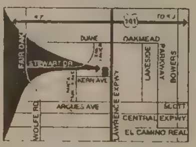
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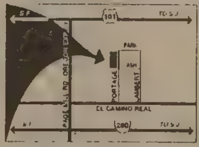
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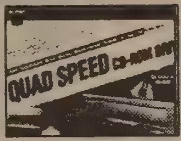

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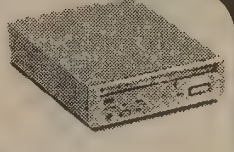

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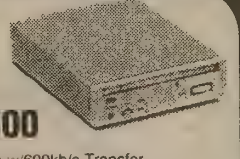

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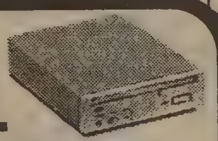

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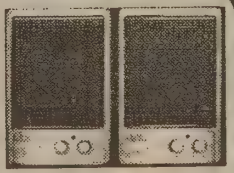

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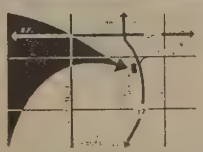

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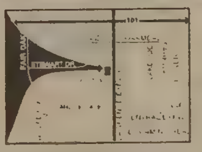

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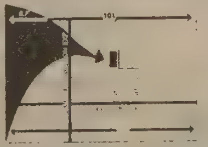

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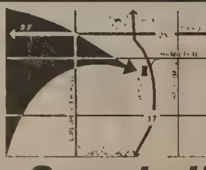

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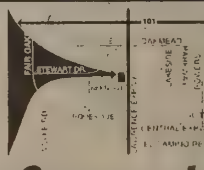

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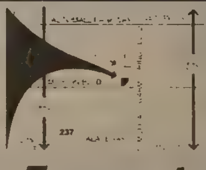

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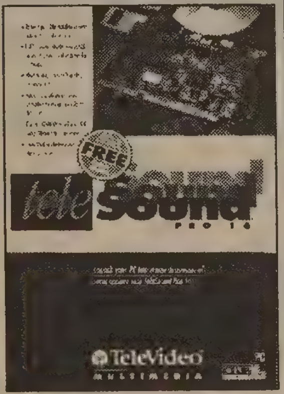
TeleSound Pro 16



- True 16-bit CD-quality stereo sound FM sound board.
- Full compatibility with all major sound standard including Sound Blaster, MPU 401, KMT-32 and Windows Sound Systems.
- 8 and 16 digital recording and playback from4kHz to 44.1kHz sample rate.
- Built-in CD-ROM interface supports Sony, Mitsumi,Panasonic and IDE.
- EasyStart installation.

$79.99

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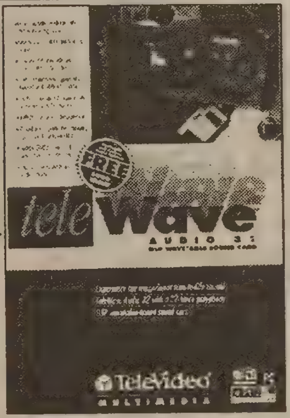
TeleWave Audio 32



- DSP based wave table & FM synthesis combo sound board.
- 32 simultaneous stereo voice polyphony and General MIDI standard support with 128 instruments
- 2MB of CD-quality sampled instruments sounds store in ROM
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- Built-in CD-ROM interface supports Sony, Mitsumi, Panasonic and IDE.
- Easy start installation.

$179.99

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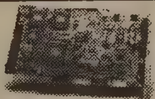
WAVETABLE SOUND CARD



16-Bit Stereo Sound
32 Operator Wavetable Synthesizer

Advanced wavetable synthesis uses real instrument samples. It has the Digital Signal Processor (DSP). Features include Sound Blaster emulation, 16-bit stereo sound, 44.1kHZ record and playback, general MIDI compliant and a joystick port. It is upgradable to speech recognition game.

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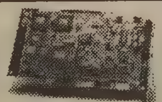

- 8 and 16-bit stereo sampling/playback from 4-44.1 KHz
- Real-time, 16-bit software compression and decompression of sound files
- CD-ROM interface for Creative Labs CD-ROM drives
- Bundled Software: Monologue for Windows and several Creative Labs software utilities
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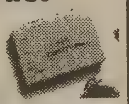

- External VGA-to NTSC converter (VGA to TV/videotape) for your laptop or desktop PC
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- S-Video (SVHS) output for high quality video recordings/displays
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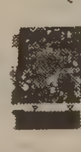

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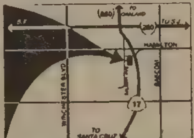

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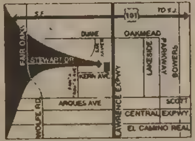

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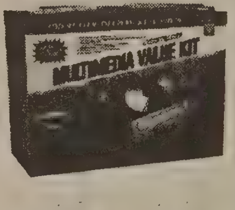

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- 16-bit stereo sound card
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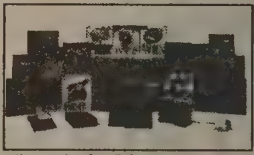

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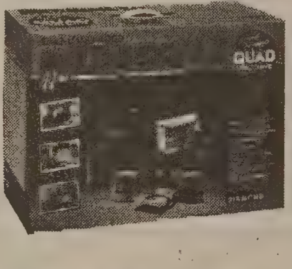

- Quad-Speed CD-ROM Drive w/600kb/s Transfer and 200ms Access
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- 11 Software Titles

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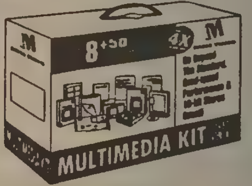

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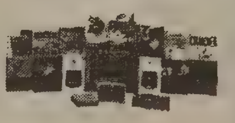

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Includes:

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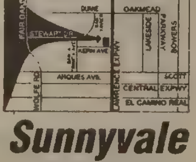
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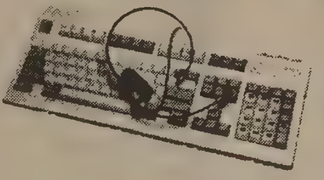

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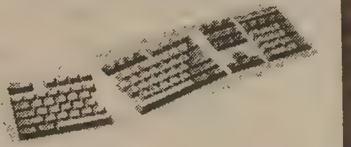

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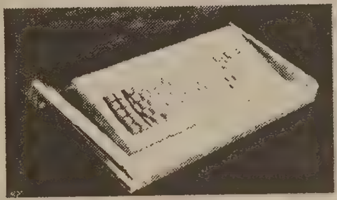

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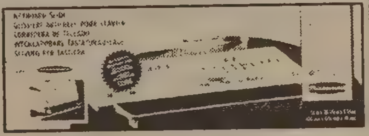

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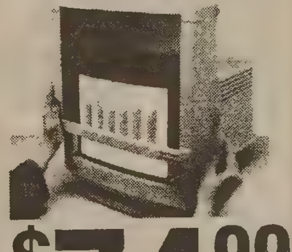

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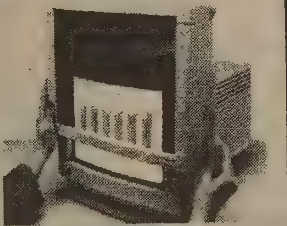

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- Controls harsh glare and screen washout
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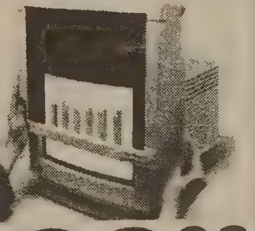

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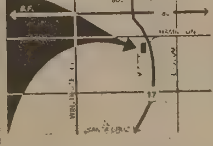

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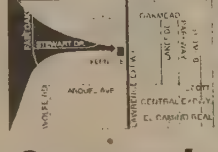

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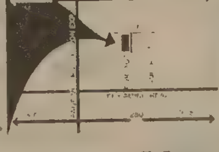

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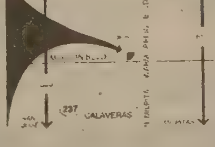

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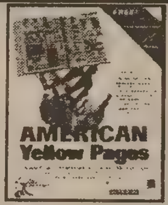

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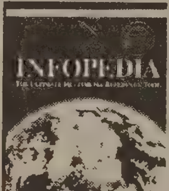

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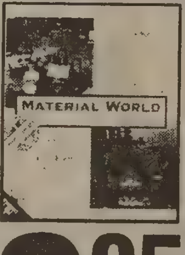

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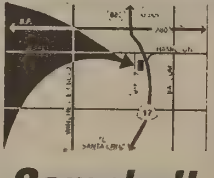

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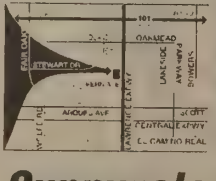

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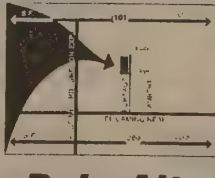

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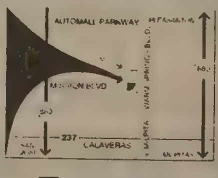

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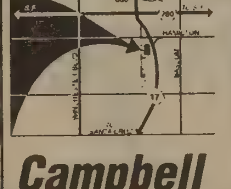

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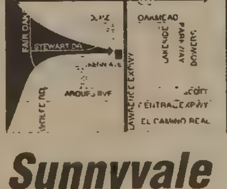

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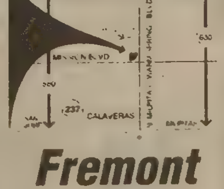

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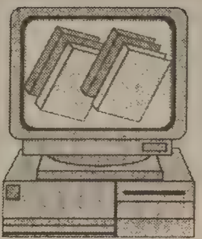

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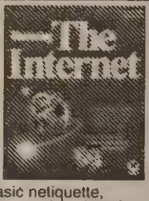

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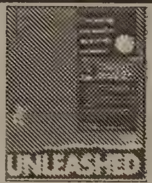

The Internet is so immense, so unfathomable in its depth and scope, that no one person, no one author can understand it all. With that in mind Sams Publishing has gathered over 40 of the world's to Internet experts to contribute their experience, their insights, and their best tips and advice to what is now the ultimate guide to the Internet-The Internet Unleashed.

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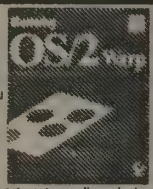

Mastering OS/2 Warp is the book you should be getting in the OS/2 Warp box. If you've opened your software, you've probably noticed the distinct lack of documentation. This book provides that and so much more. Learn to use all the remarkable capabilities of OS/2 Warp without resorting to endless help screens. You'll also enjoy the "Instant Expert" sidebars, troubleshooting help, comprehensive command reference, hundreds of international OS/2 resources, and--as a remarkable **FREE bonus**--Hobbes OS/2 Archived, a CD-ROM packed with 3,000 files of OS/2 shareware and freeware.

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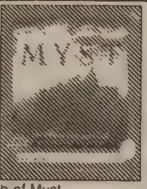

The Official Strategy guide Revised and Expanded Edition is the #1 best-selling, ultimate, authoritative source for answers and information about Myst Island and the Ages of Myst.

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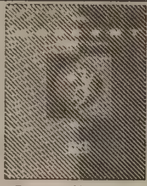

Without the Secrets in This Book. You're Doomed! Feeling lost, sick and twisted? Not sure which way is up? Are the old innards doing flip-flops because you've been rocketing upside down for the past 26 klicks? Welcome to Descent! This book doesn't contain extended text-based instructions--Descent moves too fast. By the time you look up from your reading you'll have been attacked twice, flipped upside down three times, and spun around so often you're dizzy. You need maps, maps and more maps to win this game. And with this book, that's exactly what you'll get!

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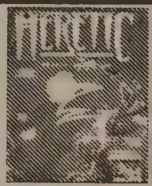

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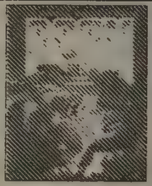

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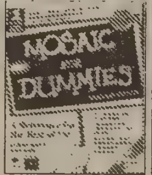

Mosaic is sweeping the Internet like a powerful tidal wave! Maybe you've never surfed the Internet, but want to give it a try. Or perhaps you've actually been there, but don't know where to go next. Mosaic For Dummies, Windows Edition makes riding the World Wide Web wave easy.

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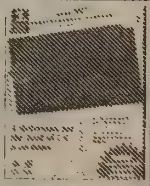

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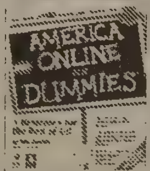

America Online is a vast, wired metropolis with a direct on-ramp to the Internet. Finally, fun and easy navigation has arrived in America Online For Dummies. This book gets you quickly oriented and surfing AOL's evergrowing world of new features and services in no time. If you want to go on an electronic voyage, America Online For Dummies is your ideal on-line travel companion.

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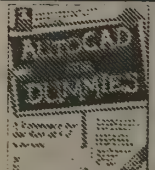

Protractors, french curves, and rulers oh my! AutoCAD may be the Emerald City of design applications, but for learning in-depth features and commands you need a wizard of a book. AutoCAD For Dummies is the friendly reference for new and experienced users of AutoCAD Release 13 for DOS and Windows. This by-your-side computer companion provides easy-to-understand guidance to get you on track.

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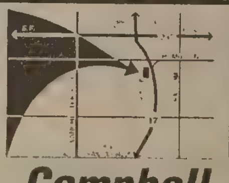

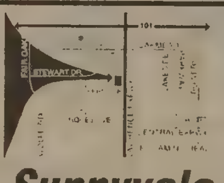

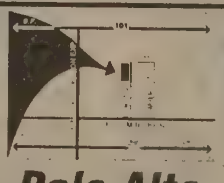

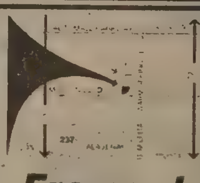

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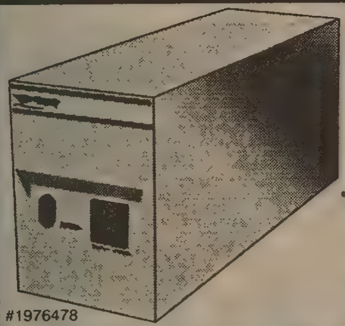

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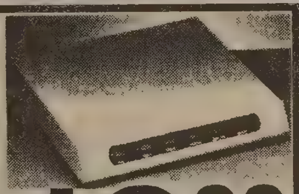

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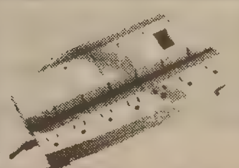
COMPUTER GRADE SURGE PROTECTOR



- 7 Outlets
- 360 Joules Surge Protection
- $10,000 Equipment Warranty

$24⁹⁹

PROXIMA

S100
#1835430

SILVER 100

SystemSaver

- 420 Joule Rating, Twice as Effective as Bronze Series
- EMI/RFI Filtering to Reduce Line Noise
- Convenient Master Switch Controls Five Outlets
- Continuously Powered Single Outlet
- Surge Protection Indicator for Added Security
- Well-Spaced Outlets to Accommodate Adapter Plugs

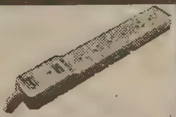
KENSINGTON.

$29⁹⁹

#1956542

POWERTREE 10

6-OUTLET SURGE PROTECTOR



- Suppresses Surges up to 120 Joules
- 15 AMP Circuit Breaker
- Platinum Color
- 6-outlets

KENSINGTON.

$12⁹⁹

#1423578

POWER MASTER

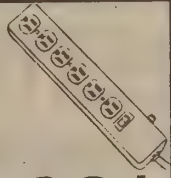
- 6-outlet metal case
- surge and noise protection
- 5-year warranty

$14⁹⁹

WABER, INC.
A Subsidiary of SL Industries, Inc.

#1953871

6-OUTLET BASIC SURGE PROTECTOR



$1⁹⁹*

- Clamping Response Time: <1 Nanosecond
- Energy Dissipation: 60 Joules

*After $3 Mail-In Rebate.
In-Store Price...
$4.99 Plus Tax.

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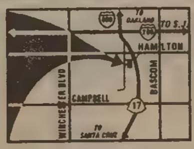
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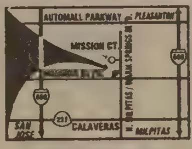
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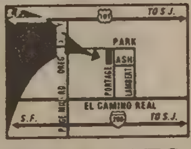
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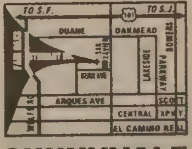
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The First PCMCIA Scanning Solution in the World!
- PCMCIA Interface compliant
- Portable scanning convenience
- Captures true 256 grayscale
- Low power consumption

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COLORMOBILE OFFICE

The Primax ColorMobile Pro combines the benefits of flatbed scanners with the convenience of handheld units for fast professional results the first time, every time. It glides across photos and documents under its own power creating perfect scans. No more shaky results! And thanks to the included trackpad, it even scans up to A4 format! The Primax ColorMobile Pro can help you design beautiful color brochures, put images into your work and create exciting multimedia presentations.

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GLIDEPOINT

The next generation in PC pointing devices
- Intuitive cursor control at your fingertips
- Replaces mouse or trackball
- "Taps" for instant selection
- Three-button versatility
- DOS and Windows™ compatible

ALPS

$64.99

#1971428

NOTEBOOK KIT

This is the most complete theft deterrent available for "Mobile Computers." including those with the "Small Security Retention Slot."

Qualtec Data Products, Inc.

$28.99

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Laptop Computer Case

- Computer Compartment protected by rigid ABS frame and thick 1/2 inch padding.
- Organizer panel designed for easy access to diskettes, business cards, airline tickets and other business documents
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- Computer compartment: 9.5" x 11.5" x 3.5"
- Accessories compartment: 9.5" x 4" x 3.5"
- Front compartment: 16.5" x 11.5" x 1.25"
- 5 lbs. 6oz.

Samsonite

$74.99

#2022462

TRACKMAN PORTABLE MOUSE

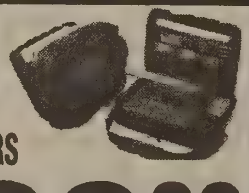
The Comfortable high-performance portable mouse.Trackman Portable gives you comfort, performance and dependability on portable and desktop systems, on the road and in the office. The thumb operated design fits in your palm for ease and precision with either hand. True ergonomics combines a comfortable shape and software that reduces repetitive motions to a single click of a mouse button.

LOGITECH

$44.99

#1825688

LEATHER CASE



FOR POWERBOOK OR LAPTOP COMPUTERS

Exterior Dimensions
16" x 12" x 6.5" Fully Extended
Interior Dimensions
15" x 11" x 2.5"
Lifetime Replacement Warranty

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A TRADITION OF EXCELLENCE

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CLN1
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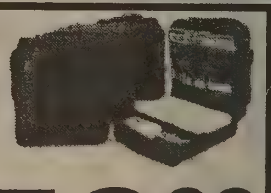
CONVERTIBLE BACKPACK



Specifically designed to carry a notebook computer and related accessories such as books and files in a functional backpack. Features include:
- 3 Separate sections.
- Hideaway padded backstraps
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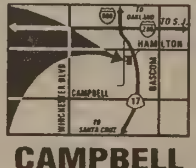

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WITH PC LINK CAPABILITY

Brothers state-of-the-art Laser fax machine combines laser print quality with copier capabilities of up to 99 continuous copies along with reduction and enlargement capabilities, and PC Link capability enabling you to utilize the laser fax machine as either a Scanner, PC/Fax Modem, or a printer! Other features include 256k memory for out of paper reception or sequential broadcasting, 30 page document feeder, 200 page sheet paper tray, 140 station memory, 32 level gray scale, and much much more! The best home office investment you will ever make at just...

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Model PPF-2500
#1925173

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MFC

FIVE IN ONE

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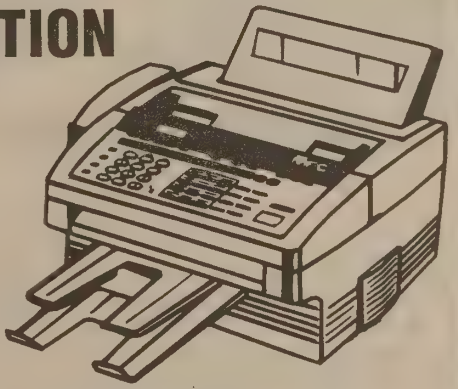
MULTI-FUNCTION LASERFAX MACHINE



The Brother MFC-4500ML five-in-one multi-function center integrates five separate products into one compact desktop package! Fax features include 512K memory for 20 pages of document storage either for broadcasting or out-of-paper reception (upgradable to 70 pages/1.5MB), 200 sheet paper tray, 64 level grayscale, 124 number memory, and much more! As a printer for your computer this machine provides 300 x 300 dpi laser 6 page per minute output as well as 512K memory (expandable to 20MB), Optimized Windows driver, Intelliprint, 45 internal fonts, and Power save mode. Other features include multiple copying up to 99 copies with reproduction/enlargement capabilities, 200 x 400 dpi scanner with Windows PC and fax/modem. The ultimate fax machine for home or office is now available for just...

$999

Model MFC-4500
#2002145

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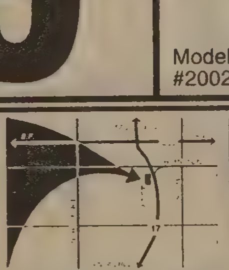

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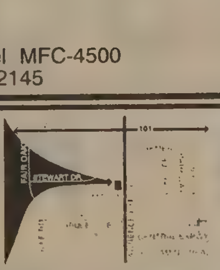

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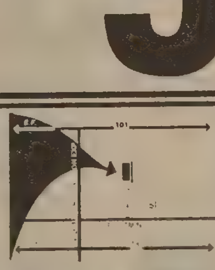

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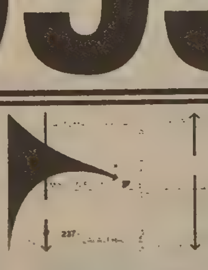

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PERSONAL COMMUNICATORS

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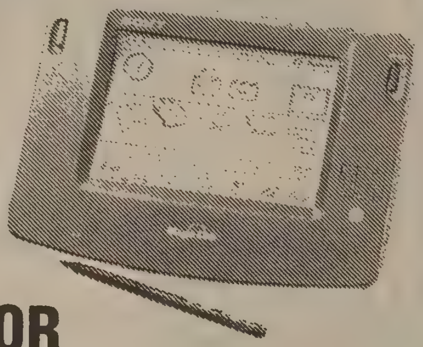
Magic Link



PERSONAL INTELLIGENT COMMUNICATOR

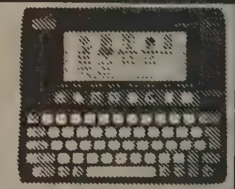
A revolutionary concept in electronics which integrates the most useful features of personal computers, telephones and pagers in a handheld, portable unit. By incorporating Magic Cap™ communicating applications platform and Telescript™ technology, the Magic Link™Communicator represents a leap forward in the use of technology to enhance your lifestyle. Features include integrated Fax/Data Modem built-in mic/speaker, Pocket Quicken, PenCell Spreadsheet, Spell Finder, Datebook, Notebook, Calculator, File Cabinet, mind game software, and much more. Magic Link™ will also facilitate various modes of communication including Phone, E-mail, Fax, Pager and Infrared, as well as supporting AT&T PersonaLink℠ Services and America Online service.

$599

Model PIC-1000
#1959305

PALMTOP COMPUTERS

PSION SERIES 3



POCKET SIZED 512K COMPUTER

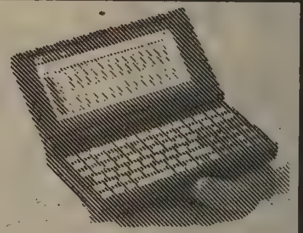
WITH BUILT-IN SPREADSHEETS

Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equipped with features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer, world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

$399

Model SERIES 3A
#1843567

HEWLETT PACKARD
Authorized Dealer



1MB PALMTOP COMPUTER

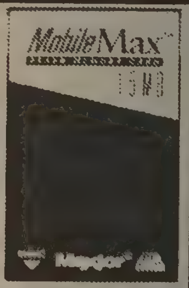
WITH 80x25 FULL SCREEN
MS-DOS 5.0 & BUILT-IN POCKET QUICKEN

The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read ! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

$498.99

Model HP-200LX
#1941670

PCMCIA 1.5MB FLASH MEMORY CARD



For HP Palmtops
Maxtor 1.5MB

$129.99

Model Mobile MAX
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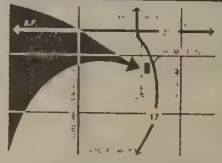

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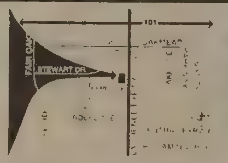

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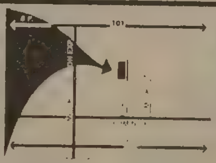

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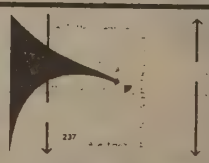

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BUSINESS PHONES

Panasonic

DESKTOP FEATURE PHONE

For the office or home, this phone has all the features you need. It has a K-size handset, 28 station automatic dialer, hold button and much more.

$39⁹⁵

Model KX-T2310
#1526398

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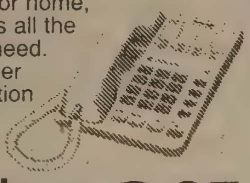
SPEAKERPHONE



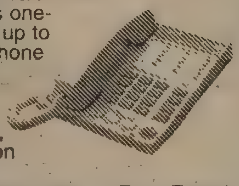
For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49⁹⁵

Model KX-T2315
#1530100

Panasonic

SPEAKERPHONE



This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

$59⁹⁵

Model KX-T2355
#1287186

MULTI-LINE PHONES

Panasonic

TWO LINE SPEAKERPHONE

A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, seperate ring switches for each line, and a local mode function. Now only...

$68⁹⁵

Model KX-T3120
#1510676

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TWO-LINE PHONE

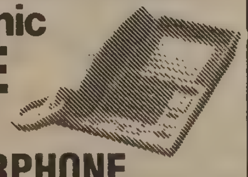
A two line phone doesn't have to cost a fortune. Panasonic has the low cost answer for you. This unit has a convenient auto dialer, conference calling and much more!

$69⁹⁵

Model KX-T3110
#1505313

Panasonic

THREE LINE SPEAKERPHONE
WITH LCD DISPLAY



From Panasonic comes this fully featured 3-line speaker-phone with LCD display, 3-way conference call, volume control for speaker and handset, 48-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$169⁹⁵

Model KX-T3185
#1768039

900MHz CORDLESS PHONE

Panasonic

30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE

This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

Model KX-T9500
#1948839

$199⁹⁵

PLAIN PAPER FAX MACHINE

Panasonic

PLAIN PAPER FAX MACHINE
WITH 20 PAGE MEMORY

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter /legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search, and much more! Now just.....

Model KX-F3000
#1850626

$698

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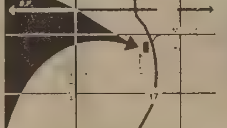

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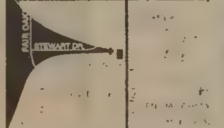

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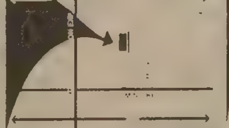

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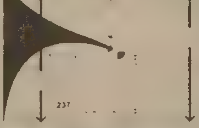

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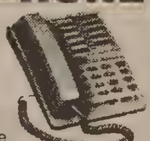
SPEAKERPHONE
WITH 20 NUMBER MEMORY



The convenience of a handsfree speakerphone allows you to do other tasks while having a conversation on the phone. Features include 20 number memory, last number redial, mute, in-use indicator light, and more. An excellent addition to any home or office at only...

$14.99

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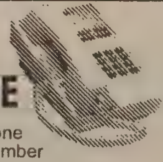
AT&T

SPEAKERPHONE



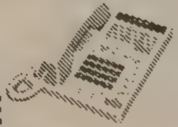
AT&T's popular speakerphone comes equipped with 12 number memory, redial, ringer adjust, mute, flash, and receiver volume control (a helpful feature for those who are hearing impaired or in a noisy environment). Now just..

$49.95

Model 706
#1781315

Panasonic

TWO-LINE SPEAKERPHONE



A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, seperate ring switches for each line, and a local mode function. Now only...

$68.95

Model KX-T3120
#1510676

SONY.

TWO-LINE FEATURE PHONE
WITH SPEAKERPHONE

Phones with 2-line operation are relatively common, but this phone offers a distinctive ring for each line! The LCD indicator will tell you the number dialed and the time. Now only..

$79.95

Model IT-D250
#1516904

MULTI-LINE PHONES

GENERAL ELECTRIC

TWO-LINE TELEPHONE

This ingenious telephone uses dual ringers with distinct ringer sounds and seperate ringer controls for each line! By pressing the conference button you will be able to conduct a three way conversation. An excellent value at only...

$39.95

Model 2-9420
#1674288

Panasonic

TWO-LINE PHONE

A two line phone doesn't have to cost a fortune. Panasonic has the low cost answer for you. This unit has a convenient auto dialer, conference calling and much more!

$69.95

Model KX-T3110
#1505313

GENERAL ELECTRIC

TWO-LINE SPEAKERPHONE

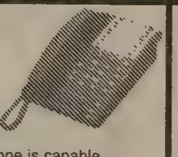
This fully lined speakerphone comes equipped with three way conference calling, dual ringers, led line-in-use indicator, 32 number memory, busy redail, one-touch redail, and flash function for in office applications or with enhanced telephone company services for only....

$69.95

Model 2-9435
#1674303

GENERAL ELECTRIC

FOUR-LINE SPEAKERPHONE



This deluxe four-line speakerphone is capable of handling up to four lines with a maximum of 16 stations. Its convenient 32 number one-touch telephone memory, along with all station page, intercom, call transfer, busy redial, flash and much more make this the perfect addition to any home or office at just...

$149.95

Model 2-9450
#1768637

ALL DIGITAL ANSWERING MACHINES

BELL Phones
BY NORTHWESTERN BELL PHONES

ALL DIGITAL ANSWERING MACHINE
WITH TIME DAY STAMP & 13 MINUTE CAPACITY

This fully featured all digital answering machine from Northwest-ern Bell comes equipped with Time/Day Stamp, Programmable Security, Selective Skip or Erase, Call Screen, Extension Pickup, Auto Disconnect, Multiple Memo Record, Toll Saver, VOX,13-Minute Capacity, Remote Access, and much more! An incredible value at just...

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Model 700
#1964820

GENERAL ELECTRIC

ALL DIGITAL ANSWERING MACHINE
WITH THREE MAIL BOXES

With three mailboxes to choose from, members of the household can have messages stored for them in their own mailbox! The all digital capability eliminates the need for moving parts and allows for instant playback of incoming messages-no need to wait for a tape to rewind or fast forward! Other features include voice time/day stamp, two outgoing messages, digital counter, selective message erase and much more for only...

$69.95

Model 2-9876
#1839261

SONY.

ALL DIGITAL ANSWERING MACHINE
WITH TIME/DAY STAMP

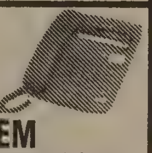
This innovative Sony all digital answering machine features a slim space saving design which allows a phone to be placed on top of it. Other features include variable-speed playback, voice time-day stamp, digital message counter, audible message alert, and more. Now just...

$99.95

Model TAM-2000
#1949793

Panasonic

ALL DIGITAL 4 MAILBOX ANSWERING SYSTEM
WITH SPEAKERPHONE & VOICE TIME/DAY STAMP



Panasonic's fully featured answering system comes equipped with 30 minute storage capacity, voice time/day stamp, speakerphone, voice menu, 4 personal mailboxes with security, lcd display, message scan, programmable alarm, message transfer, 2-way record, selective message delete, message skip/repeat, auto disconnect, auto redial, 10 number memory, and much more! An invaluable addition to any home or office at just...

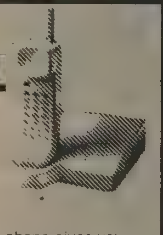
$199.95

Model KX-T2880 #1841989

900 MHz CORDLESS PHONES

uniden

40 CHANNEL 900MHz CORDLESS PHONE



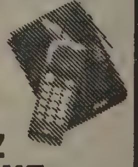
Uniden's latest 900MHz cordless phone gives you unparalleled range and performance along with premium features that include 40 channel selection, call monitor, 2-way/hands-free intercom, 10 number memory, mute, last number redial, flash, and much more, all for just....

$189.99

Model EXP-901
#1965005

muratec

60 CHANNEL ULTRA LONG RANGE 900MHz CORDLESS PHONE

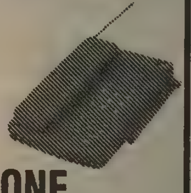


Compact in design, but powerful in performance, this 60 channel, long range 900MHz phone offers 10 number speed dialer, last number redial, flash, intercom/paging, mute, and much more. Now just...

$199.95

Model CP-900
#1986611

DIGITAL 900MHz DUAL KEYPAD SPEAKERPHONE



From VTech a leader in 900MHz cordless phone technology come this feature packed unit with 20 channel selection, a digital voice encryption system, out-of-range indicator, four programmable ringer types, one-way page, 10 number memory, mute, flash, hold, and last number redial all for the incredible price of only....

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Model 900DX
#1852972

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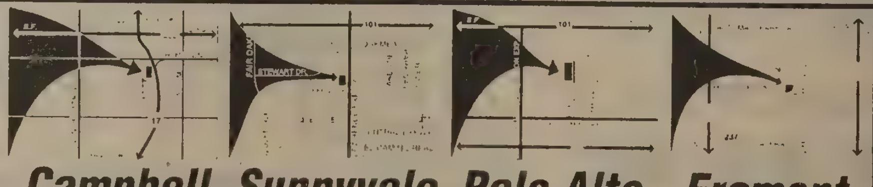

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MODEL DS-1120WR
#1942578

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$898

MODEL DS-2430WR
#1942589

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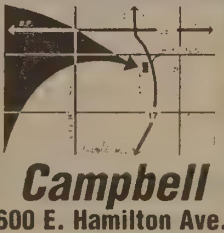

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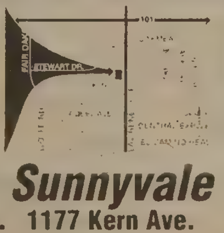

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Product Spotlight

UPDATES

Aperture Technologies is shipping the **Macintosh version of Release 5.0** of Aperture, its popular visual information management application. It is priced at $2995 for a single license. Aperture Technologies, Inc., 100-3 Summit Lake Dr., Valhalla, NY 10595. 1-800-346-6828.

Group 1 Software has made available **AccuMail v4.0** for DOS and Windows. The new release provides improved accuracy and address correction, county coding, two-line address coding, and a new Windows help system. A single quarter-year release is $295, an annual subscription is $1095. Group 1 Software, Inc., 4200 Parliament Pl., Suite 600, Lanham, MD 20706-1844. 1-800-368-5806.

HavenTree Software released **EasyFlow for Windows v2.0**, its graphics presentation software for business users. The new version sells for $199; upgrades are free to 1.0 users. HavenTree Software Ltd., P.O. Box 470, Fineview, NY 13640-0470. 1-800-267-0668.

Healthdemographics introduced **Managed Care 2.0**, an accessibility analysis application that offers high-end mapping and comprehensive reporting capabilities. Healthdemographics, 4901 Morena Blvd., Suite 701, San Diego, CA 92117. (619)581-3400.

Island Graphics delivered **IslandTrapper 2.0**, a major revision of its PostScript trapping application for the Macintosh. The SRP is $4495 with upgrade discounts for current users. Island Graphics Corp., 4000 Civic Center Dr., San Rafael, CA 94903. (415)491-1000.

KnowledgePoint has released **Performance Now! 2.0,** the network-ready version of its employee performance review software. Current users can upgrade to a five-user license for $199. KnowledgePoint, 1129 Industrial Ave., Petaluma, CA 94952-9820. 1-800-727-1133.

Lasergraphics is shipping **WinRascol RIP 2.0,** the latest version of image management software to interface with Windows applications outputting to Lasergraphics digital film recorders. The price is $250, less for upgrades. Lasergraphics, Inc., 20 Ada, Irvine, CA 92718. (714)753-8282.

Passport Designs released **Master Tracks Pro 6.0** for Windows and Macintosh, the latest version of its popular MIDI sequencer. It has a new competitive suggested price of $149. Passport Designs, 100 Stone Pine Rd., Half Moon Bay, CA 94019. (415)726-0280.

Santech Group released **TimeClok v2.1** for Windows. It can track what an employee is working on and for how long. List price is $149; DOS and network versions are available. Santech Group Inc., 9115 Brown Deer Rd., Suite 200, San Diego, CA 92121. 1-800-776-9181.

Servio has released a version of its **GemStone 4.0 object server that works transparently with Digitalk's Visual Smalltalk Enterprise 3.0** application development environment. It is priced around $6000 per application developer and $1200 per user, depending on platform and quantity. Servio Corp., 15400 NW Greenbriar Pkwy., Suite 280, Beaverton, OR 97006. 1-800-243-9369.

Tally Systems is shipping **CentaMeter 2.0**, a NOS-independent software license management tool. The new version begins at $12 per PC for one hundred, and decreases for larger quantities. Tally Systems Corp., P.O. Box 70, Hanover, NH 03755. 1-800-262-3877.

New Products

PC Hardware

WaveWatcherTV-II

The WaveWatcherTV-II video capture card features full-motion video capture with no video motion artifacts, a built-in cable-ready TV tuner and FM radio, and support of up to 1024 x 768 resolution in a full-screen display for TV or video. The software can capture and play back compressed AVI files in a full-screen display. The TV software allows viewing of up to sixteen channels simultaneously on one screen; color and audio control; fine-tuning, channel scan, and sleep functions; independent video and audio sources control; freezing and storing still images from live video; and special effects like strobe, video-in-picture, and chroma. The radio software includes volume, bass, treble, balance, and fine-tuning controls and sleep, mute, alarm, and station scanning functions. WaveWatcherTV-II also features a date and time event scheduler to manage TV and radio programs. ($429) AITech International Corp., 47971 Fremont Blvd., Fremont, CA 94538. (510)226-8960 or 1-800-882-8184.

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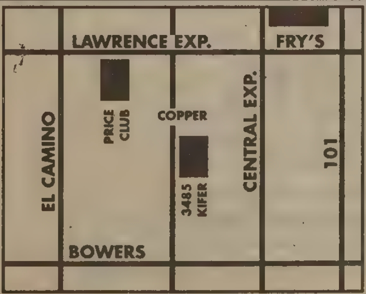

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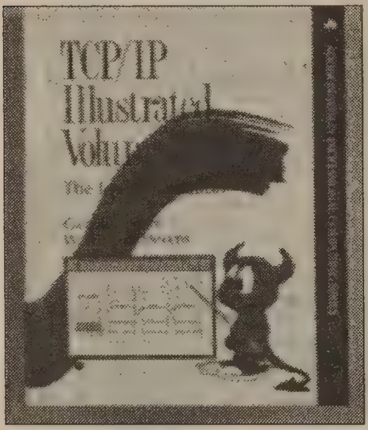
Books

TCP/IP Illustrated, Volume 2: The Implementation

The second volume in this ongoing series, *TCP/IP Illustrated, Volume 2: The Implementation* by Gary R. Wright and W. Richard Stevens, offers a comprehensive description of how TCP/IP protocols are implemented. Volume 2 is extensively illustrated, with more than five hundred figures and pictures describing data structures and algorithms and fifteen thousand lines of code to help you master the TCP/IP protocol suite. The authors use a teach-by-example approach to explain how TCP/IP protocols are implemented. Each chapter presents a set of TCP/IP source code along with illustrations depicting related data structures and algorithms. The book is comprehensive and up-to-date, covering the newest features of the 4.4BSD-Lite release, including multicasting, long fat pipe support, window scale, timestamp options, and protection against wrapped sequence numbers. It also provides detailed information about router functionality and sockets API. ($52.75) Addison-Wesley Publishing Co., One Jacob Way, Reading, MA 01867. 1-800-822-8339.



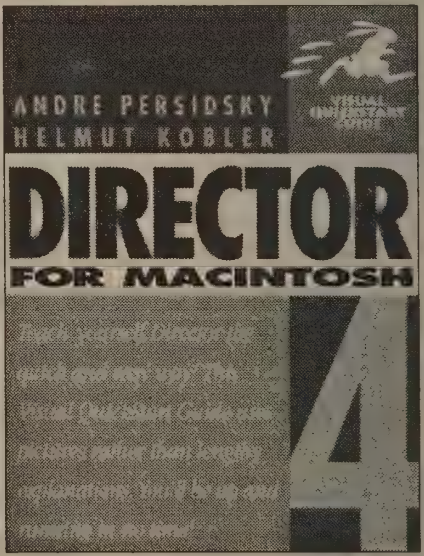
Hitchhiker's Guide To America Online

Author Charles Dowen presents America Online's procedures, features, and fine points to provide a vital map for users at every level of proficiency. *The Hitchhiker's Guide to America Online* is a comprehensive guide to help users get the most out of this increasingly popular service and invites users to jump on board and explore. Organized alphabetically, it is an easy-to-follow guide that offers topic articles which focus on the individual features of AOL and overview articles that discuss subjects such as games, news, financial services, and more. Thoroughly cross-referenced, this book allows readers to jump between terms and helps users find specific information quickly and easily. *The Hitchhiker's Guide to America Online* is an ideal companion for users who want the most exciting and up-to-date information made easily accessible. ($21.95) MIS:Press, 115 W. 18th St., New York, NY 10011.

THE HITCHHIKER'S GUIDE TO
America Online
CHARLES BOWEN

Director 4 For Macintosh: Visual QuickStart Guide

Director 4 for Macintosh teaches the fundamentals of using Director as well as the features new to this version. Readers learn how to animate text and graphics, use different Paint capabilities, alter color palettes, use sound, set scene transitions, add interactive controls to the movie, and more. This Visual QuickStart Guide consists primarily of illustrations and is organized as a reference rather than a tutorial so readers can quickly find information on a particular tool or function. Topics covered include Basics; How Director Works; the Cast, Score, Paint, and Tools windows; the Control Panel; Color; the Auto Animate command; Animation Techniques; Creating Text; Sound; Setting Scene Transitions; Tempo; Interactivity and Lingo; and creating a projector. ($18.95) Peachpit Press, 2414 Sixth St., Berkeley, CA 94710. 1-800-283-9444 or (510)548-4393.



Genealogy Online: Researching Your Roots

In *Genealogy Online*, author Elizabeth Powell Crowe begins with a discussion of the basic

continued on page 333

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Intel PENTIUM-90/256K PCI	1,669
PENTIUM-66/256K PCI	1,507
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Genoa 486DX4-100/256K VLB	1,197
Genoa 486DX2-66/256K VLB	1,132
486DX2-66/256K VLB	1,112
486DX-50/256K VLB	1,139
486DX-40/256K VLB (AMD)	1,072
486DX-33/256 VLB	1,052

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Genoa 486DX4-100/256K VLB	130	355
Genoa 486DX2-66/256K VLB	109	240
Genoa 486DX-50/256K VLB	109	320
Genoa 486DX-33/256K VLB	109	209
486DX4-100/256K PCI w/IDE I/O	130	375
486DX2-66/256K PCI w/IDE I/O	130	270
486DX-50/256K PCI w/IDE I/O	130	345
486DX-33/256K PCI w/IDE I/O	130	220
486DX2-66/256K VLB	85	230
486DX-50/256K VLB	85	285
486DX-33/256K VLB	85	180

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- * Mini Tower Case w/230W P.S.
- * 101 keyboard
- * Microsoft Compatible Mouse w/ Pad

Intel PENTIUM-90/256K PCI	1427
PENTIUM-66/256K PCI	1265
PENTIUM-60/256K PCI	1173
Genoa 486DX4-100/256K VLB	955
Genoa 486DX2-66/256K VLB	880
Genoa 486DX-50/256K VLB	945
Genoa 486DX-33/256 VLB	855
486DX2-66/256K VLB	870
486DX-50/256K VLB	897
486DX-40/256K VLB (AMD CPU)	830
486DX-33/256 VLB	810

UPGRADE	ADD	UPGRADE	ADD
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1 GB IDE	180	Mid Tower Case	25
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CONNER 420 MB IDE	170
CONNER 540 MB IDE	185
CONNER 1.2GB IDE	385
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FUJITSU 525 MB	185
WESTERN DIGITAL 540 MB IDE	210
WESTERN DIGITAL 1.0 GB IDE	420

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Keytronic	24
Focus 2001	35

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64 VLB/PCI 1MB/2MB	119/174
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Tarantula 64 2MB/4MB	265/375

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IDE 2FD/2HD w/2S/1P/1G	11
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IDE VLB I/O w/16550	38
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Adaptec SCSI 1522/1542	79/168
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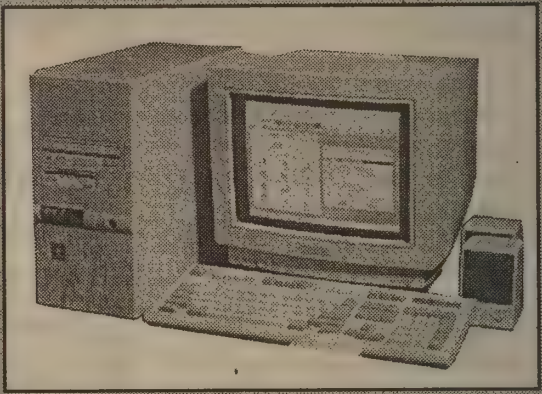

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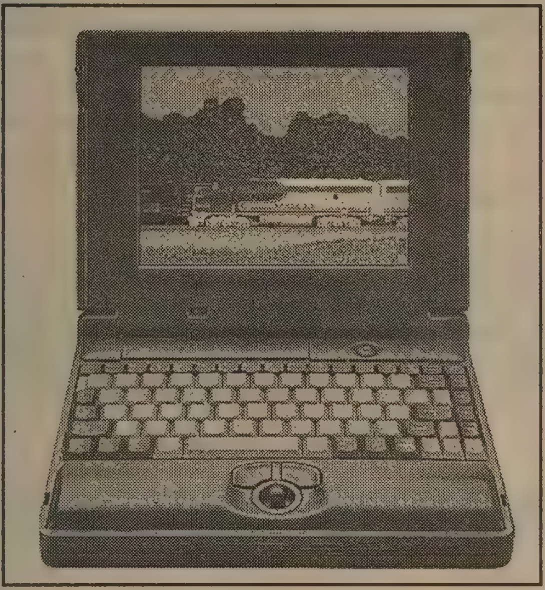

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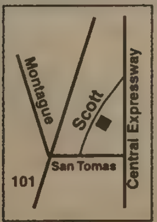

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Fantasies

continued from page 28...

committee members and carefully chosen witnesses such as the FBI's Louie Freeh have repeatedly commented darkly on how extremist militia groups are *using the Internet* to communicate and coordinate their nefarious citizen gatherings, and repeatedly intone the mantra—quickly echoed by obedient television news anchors—that bomb-making instructions can be found on the Internet.

They fail to mention the equally terrifying fact that militia groups use the phone system far more than they use the Internet, and that the bomb-making instructions on the Internet came from the quarter-century-old *Anarchists' Cookbook*—a book that tens of thousands of hip college kids bought in the anti-war '60s.

The phone system is probably safe from Oklahoma-excused government suppression. But bookstores, libraries, and chemistry authors better watch their step. And the Internet is a wide-open target for surveillance and censorship (can I say "target" or is that too incendiary?).

Privacy For Government

While the government wants greater access and technology to make it easier to monitor and spy on citizens, it is also becoming much more coy about making information about itself available to the public:

- The Clinton administration has now backed down from its laudable policy of making all public records available in all reasonable ways at no more than the incremental cost of copying, as declared in OMB Circular A-130 in 1993. Early this year, it asked Congress to let any agency—simply by making a declaration in the Federal Registe —charge anything it desires for public access to public records.
- At a state level, police unions including the omnipotent CCPOA— California Correctional Police Officers Association, one of the largest donors to state political campaigns—want almost all records regarding citizen allegations of police misconduct and their hearings and findings kept secret.
- State Senator Quentin Kopp's SB 323 would expand the California Public Records Act (CPRA) to mandate that already-computerized disclosable public records be made available to the public that paid for their computerization, in whatever computerized forms they exist, without profit to the agency that retains them. But as of late March, a dozen cities and counties had already come out of the woodwork, screeching their opposition, including the County of Santa Clara (Silicon Valley!), the City of Palo Alto (home of Stanford and numerous high-tech companies including HP), Oceanside, La Mirada, West Covina, Rancho Cucamonga, Bell Gardens, South El Monte, Escondido, Hawthorne, Cudahy, Vernon, and Newark.

The County of Santa Clara expressed fear that such nonprofit *public* access to its public geographic information system (GIS) data would complicate its half-million-dollar monopoly contract with a private-sector map company. (About a year or more ago, I had warned a large public meeting that included Santa Clara County officials about the public-access requirements of the CPRA.)

City Attorney Ariel Calonne is leading the

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486 DX4/100 PCI w/IDE 256K....................$119
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ATI
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GXE 64 Pro VRAM 2/4MB...................$ 320/486
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Fantasies *continued...*

charge to oppose public access, mostly pleading that public agencies might erroneously release some nondisclosable components that are commingled with the disclosable records. However, the same information *must* be provided upon request in *some* form—recalcitrant agencies like to offer only costly, minimum-utility printouts when asked for entire databases of disclosable public records.

If an entire database is requested, and it includes nondisclosable components, then the agency rule could easily be that someone who is *competent* must oversee its release.

City and county residents—especially Palo Alto and Santa Clara County—flame the hell out of your city council members and county supervisors.

Justice For Sale

Last of all in this depressing report, the Los Angeles County Municipal and Superior Courts want to gouge megabucks out of litigants for access to their computerized public court documents, and want to prohibit computerized bulk-copying to protect their profit stream while repressing low-cost utility, innovation, and oversight:

In late April, the L.A. County Board of Supervisors scheduled a "Hearing on proposed implementation of the courts' On-Line Civil Data Program and establishment of a start-up fee of $49,255 and an ongoing access fee of 25% of each transaction fee charged by the individual [actually, by a court-information access-provider] receiving the data to its clients [i.e., a kick-back of 25% of whatever you are charged by the for-profit access provider for access to public court documents in useful form], to be charged for the enhanced access [that means access in useful, computerized form] to the Civil Court data; ... authorize the Information Systems Advisory Body (ISAB) to manage and administer the program; approve and authorize Purchasing Agent to execute standard Information Access Provider Agreement [that would prohibit bulk copying, such as CD-ROM or other useful formats] with each interested person or firm; instruct the Chief Administrative Officer to include revenues generated from the marketing program in the 1995–96 Budget; also approve establishment of a special fund to collect revenues received from the On-Line Civil Data Program for the Municipal and Superior Courts; approve distribution of the Marketing revenue with 10% to ISAB for management and administration of the program, 72% of all fees to the originating court for technology investment [which apparently includes day-to-day data operations], and 18% to the County General Fund [a little kick-back for the Board of Supervisors to play with]; and request ISAB to report to the Chief Administrative Officer and the Board on a quarterly basis all revenues received and how the revenues were spent."

Government of the wealthy, by the politicians, for the bureaucrats. ■

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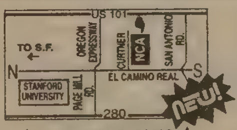

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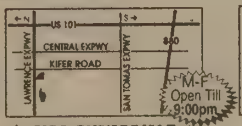

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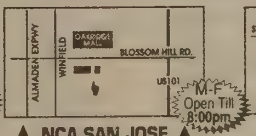

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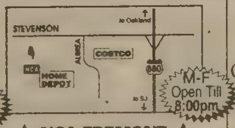

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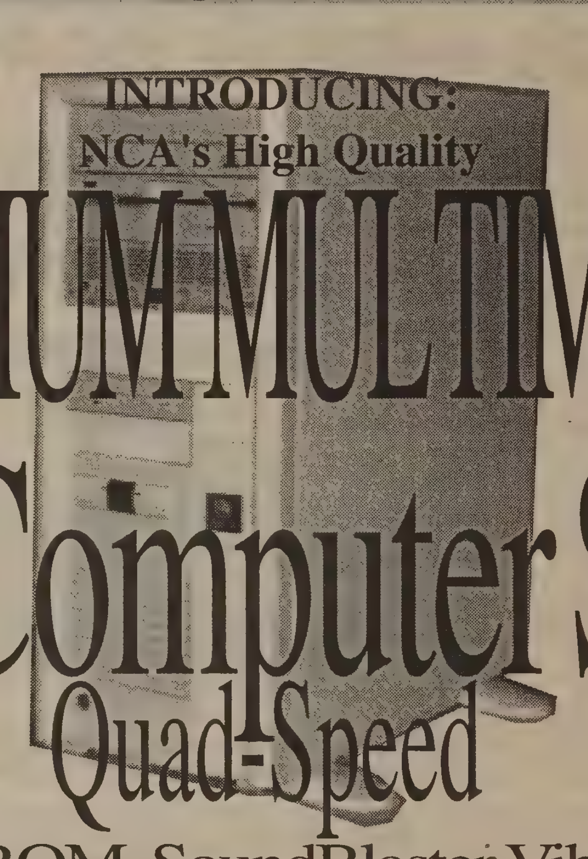

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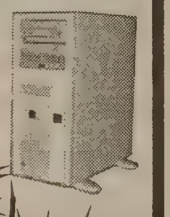

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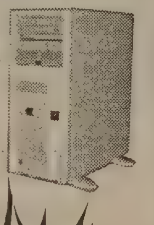

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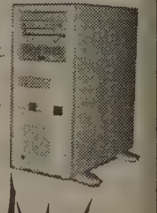

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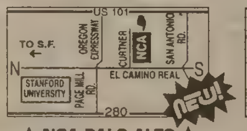
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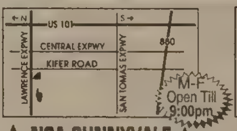
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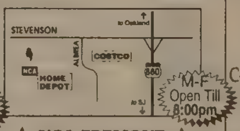
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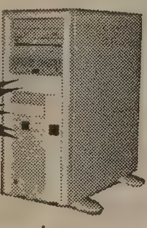

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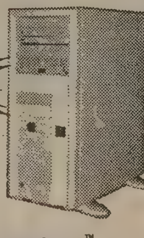

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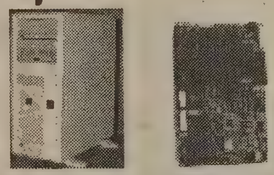

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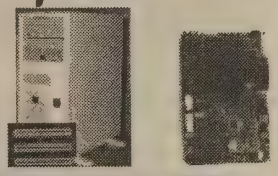

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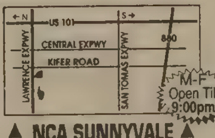

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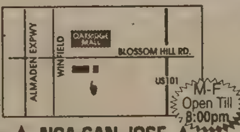

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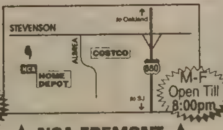

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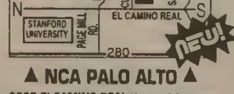
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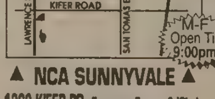
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7540AV, 12ms, 2 Yr. Warr.

850MB IDE .... $\$233^{95}$
7850A, 12ms, 2Yr. Warr.

1.0GB IDE .... $\$329^{95}$
71050A, 12ms, 2 Yr. Warr.

1.2GB IDE .... $\$355^{95}$
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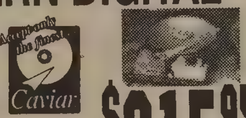
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14ms, CFS425A Low Profile 3.5"x1"

540MB IDE .... $\$175^{95}$
14ms, CFS540A 64K Cache

850MB IDE .... $\$235^{95}$
Fast, CFA850A Low Profile 3.5"x1"

1.2GB IDE .... $\$345^{95}$
15ms, 64K, CFS1275A

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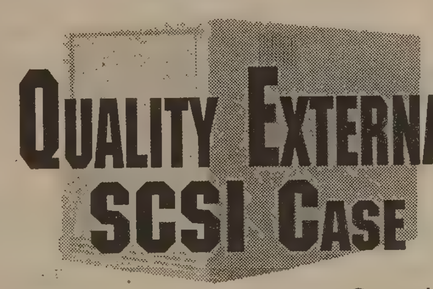
	INTERNAL	EXTERNAL
1.0GB SCSI CFP1080S, 256K, 10ms, 3.5"x1"	$\$445^{95}$	$\$555^{95}$
1.0GB SCSI CP1080W, 9.5ms Fast Wide	$\$549^{95}$	$\$659^{95}$
2.14GB SCSI CFP2105S, 5400RPM, 8.5ms	$\$844^{95}$	$\$954^{95}$
2.14GB SCSI CFP2107S, 7200RPM, 8.5ms	$\$925^{95}$	$\$1035^{95}$
4.2GB SCSI CFP4207F, 7200RPM, 8.5ms	$\$1299^{95}$	$\$1409^{95}$



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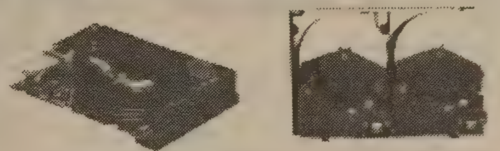

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	INTERNAL	EXTERNAL
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1.0GB SCSI-II 10.5ms, 5400 RPM, 3Yr. Warr.	$\$509^{95}$	$\$619^{95}$

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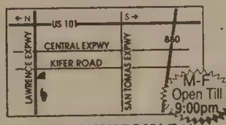
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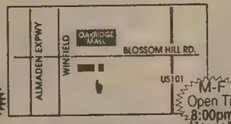
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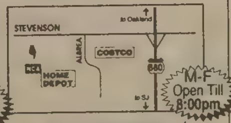
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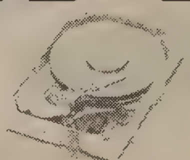
- ▶ 3.5"



$\$1149^{95}$

External.......$1259.95

MAVERICK SERIES®

CAPACITY	M/N	SEEK	SIZE	PRICE
540MB IDE	QM30540MVA	14ms	3.5"X1"	$\$187^{95}$
540MB SCSI	QM30540MVS	14ms	3.5"X1"	$\$197^{95}$

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CAPACITY	M/N	SEEK	SIZE	PRICE
540MB IDE	QM30540LTA	11ms	3.5"X1"	$\$197^{95}$
540MB SCSI	QM30540LTS	11ms	3.5"X1"	$\$210^{95}$
730MB IDE	QM30730LTA	11ms	3.5"X1"	$\$233^{95}$
730MB SCSI	QM30730LTS	11ms	3.5"X1"	$\$257^{95}$

DAYTONA SERIES®-2.5"

CAPACITY	M/N	SEEK	SIZE	PRICE
256MB IDE	QM20256DYA	12ms	2.5"	$\$247^{95}$
341MB IDE	QM20341DYA	12ms	2.5"	$\$311^{95}$
514MB IDE	QM20514DYA	12ms	2.5"	$\$422^{95}$
256MB SCSI	QM20256DYS	12ms	2.5"	$\$249^{95}$
341MB SCSI	QM20341DYS	12ms	2.5"	$\$319^{95}$
514MB SCSI	QM20514DYS	12ms	2.5"	$\$429^{95}$

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Available Soon

CAPACITY	M/N	RPM	SEEK	SIZE	PRICE
540MB FastATA-2	QM30540FBA	5400	12ms	3.5"X1"	$\$235^{95}$
540MB FastSCSI-2	QM30540FBS	5400	11ms	3.5"X1"	$\$245^{95}$
1.0GB FastATA-2	QM31080FBA	5400	12ms	3.5"X1"	$\$355^{95}$
1.0GB FastSCSI-2	QM31080FBS	5400	11ms	3.5"X1"	$\$379^{95}$

TRAILBLAZER SERIES®

Available Soon

CAPACITY	M/N	RPM	SEEK	SIZE	PRICE
420MBFastATA-2	QM30420TRA	4500	14ms	3.5"X1"	$\$198^{95}$
420MBFastSCSI-2	QM30420TRS	4500	14ms	3.5"X1"	$\$210^{95}$
850MBFastATA-2	QM30850TRA	4500	14ms	3.5"X1"	$\$315^{95}$
850MBFastSCSI-2	QM30850TRS	4500	14ms	3.5"X1"	$\$325^{95}$

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2.1GB	XP32150S	7200	8.5ms	3.5"	$\$899^{95}$	$\$1009^{95}$
2.2GB	VP32210S	5400	8.5ms	3.5"	$\$849^{95}$	$\$959^{95}$
4.2GB	XP34301GPS	7200	8.5ms	3.5"	$\$1149^{95}$	$\$1259^{95}$
4.3GB	XP34005	7200	8.5ms	3.5"	$\$1529^{95}$	$\$1639^{95}$

▶ **FACTORY NEW WITH FULL FACTORY WARRANTY**

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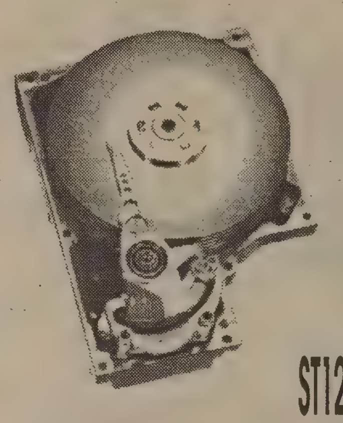

BARRACUDA II / 2.1GB

ST32550N

INTERNAL

- ▶ 3.5", 8ms
- ▶ 7200RPM
- ▶ Fast SCSI-II
- ▶ 500,000MTBF
- ▶ 5 year warranty

$\$995^{95}$

EXTERNAL $\$1105^{95}$

BARRACUDA IV/ 4.1GB

ST15150N

INTERNAL

- ▶ 3.5", 8ms
- ▶ 7200RPM
- ▶ Fast SCSI-II
- ▶ 500,000MTBF
- ▶ 5 year warranty

$\$1419^{95}$

EXTERNAL $\$1529^{95}$

ST12450W 1.7GB Fast Wide SCSI-III....$\$1445^{95}$

External.....................$\$1555^{95}$

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
730MB	ST3780A	256K	FAST	3.5"X1"	$\$199^{95}$
850MB	ST5850A	256K	11ms	3.5"X1"	$\$239^{95}$
1.08GB	ST31220A	Enhanced IDE	12ms	3.5"X1"	$\$339^{95}$

SCSI

CAPACITY	M/N	RPM	SEEK	SIZE	INTERNAL	EXTERNAL
1.05GB	ST31230N		9ms	3.5"X1"	$\$522^{95}$	$\$632^{95}$
1.05GB	ST31230W		9ms	3.5"X1"	$\$629^{95}$	$\$739^{95}$
2.1GB	ST32430N		9ms	3.5"	$\$872^{95}$	$\$982^{95}$
2.1GB	ST32550N	7200	8ms	3.5"X1"	$\$995^{95}$	$\$1105^{95}$
4.3GB	ST15150N	7200	8ms	3.5"	$\$1419^{95}$	$\$1529^{95}$
4.3GB	ST15230N	5400	9ms	3.5"	$\$1239^{95}$	$\$1349^{95}$
9.0GB	ST410800N		10ms	5.25"	$\$2979^{95}$	$\$3089^{95}$

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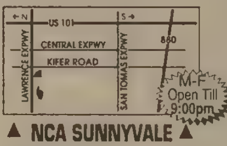

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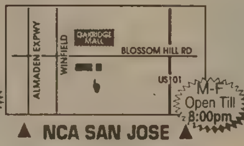

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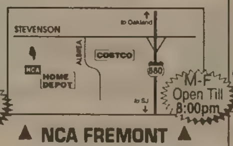

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5 YEAR WARRANTY

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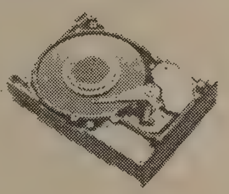
- ▶ 5.25"



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EXTERNAL...$2409.95

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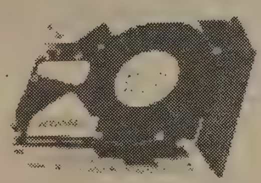
3.0GB INTERNAL SCSI-II

- ▶ MC1936
- ▶ 11ms Seek Time
- ▶ 5400RPM
- ▶ FH



$839.95

EXTERNAL...$949.95

SCSI

	MODEL	RPM	SEEK	SIZE	INTERNAL	EXTERNAL
1.75GB	MC2217S	5400	10ms	3.5"	......$799.95	...$909.95
1.75GB	MC2217AV	Audio/Video			.........$955.95	.$1065.95
2.0GB	MC4221	7200	8.5ms	3.5"	......$975.95	.$1085.95
2.0GB	MC4221AV	Audio/Video			........$1088.95	$1198.95
3.0GB	MC1936	5400	11ms	FH	.......$839.95	...$949.95
3.0GB	MC1936AV	Audio/Video			........$1339.95	$1449.95
4.0GB	MC3243S	7200	8.5ms	3.5"	.....$1325.95	$1435.95
4.0GB	MC3243AV				........$1485.95	$1595.95
9.1GB	MC1991	5400	10ms	5.25"	....$2299.95	$2409.95
9.1GB	MC1991AV	Audio/Video			........$2485.95	$2595.95

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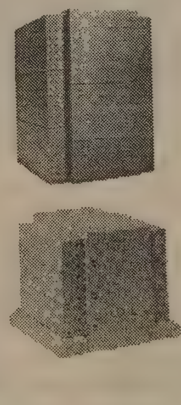

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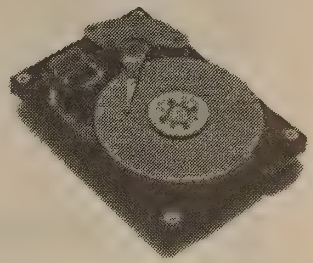
1.0GB SCSI-II 3.5"X1"

LOWEST NCA PRICES EVER

M1606

NEW!

- ▶ 3.5"X1" Drive
- ▶ 10ms Seek Time
- ▶ 5400 RPM
- ▶ 3-Year Warranty



$499.95

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
530MB	M2684TAU	256K	12ms	3.5"x1"	$185.95

SCSI

CAPACITY	M/N	CACHE	SEEK	SIZE	INTERNAL	EXTERNAL
530MB	M2684SAU	256K	12ms	3.5"x1"	..210.95	.....$320.95
1.0GB	M1606		10ms	3.5"X1"	..$499.95	....$609.95

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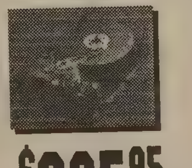
- ▶ 8.5ms Seek Time
- ▶ 500K MTBF
- ▶ 6400RPM
- ▶ 5-Yr. Warr.
- ▶ 57 Mbits/s Trans. Rate
- ▶ Up to 10Megabytes/s (synchronous)



$985.95

EXTERNAL $1095.95

1.05GB 3.5" SCSI-II

Formatted Capacity

- ▶ HP C3323SE
- ▶ 9.5ms Seek Time
- ▶ 5400RPM
- ▶ 500K MTBF
- ▶ 5-Yr. Warr.
- ▶ Up to 24 Mbits/s
- ▶ Up to 10 Mbytes/s (synchronous)

$515.95

EXTERNAL $625.95

2.1GB IDE 3.5"X1"

NEW!

- ▶ HP 3725S
- ▶ 8.9ms Seek Time
- ▶ 6400RPM
- ▶ 5-Yr. Warr.
- ▶ 57 Mbits/s Trans. Rate
- ▶ Up to 20Megabytes/s burst(synchronous)

$975.95

EXTERNAL $1085.95

1.2GB IDE 3.5"X1"

NEW!

- ▶ HP 3724
- ▶ 9.5ms Seek Time
- ▶ 5400RPM
- ▶ 5-Yr. Warr.
- ▶ Up to 20Megabytes/s burst(synchronous)

$565.95

EXTERNAL $675.95

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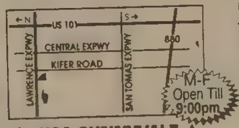
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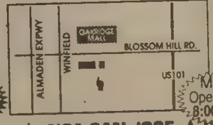
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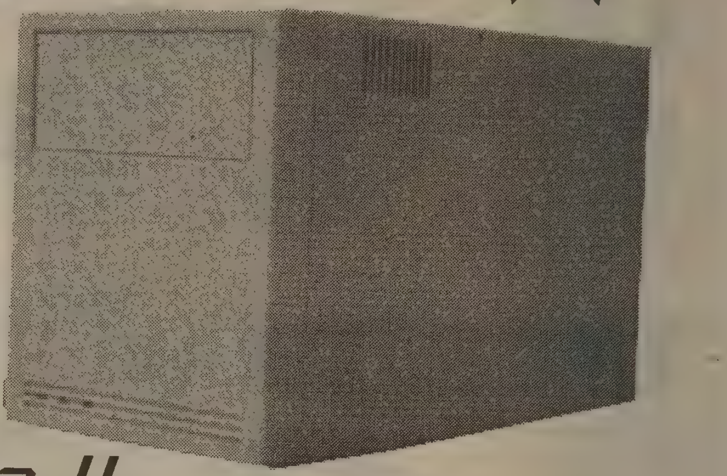
NCA's High Quality ***Barracuda Series***

EXTERNAL SCSI DEVICES

for PC, MAC, SUN, & SILICON GRAPHICS



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- Noise-Free Fan
- Top Manufacturers Quality SCSI Devices
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- Selectable SCSI ID.
- External Termination / includes a terminator
- SCSI Cable (Cent50-Cent50 or Cent50 to DB25)
- Power Cable
- Fully Tested and Approved
- Mac Formatting and Caching Software (upon request)
- External PC Kits Available

"ONE STOP" SuperSource for Virtually Every SCSI Drive Made today.

NCA's

Barracuda I

External
3.5" Fixed SCSI Disk Drives

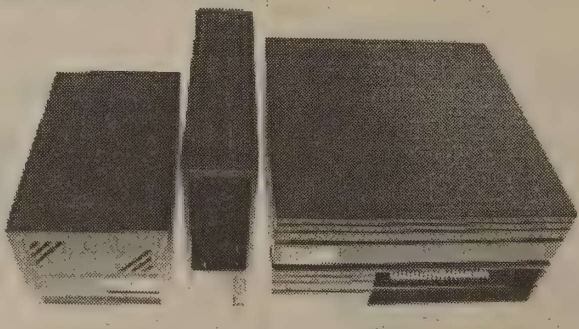
SIZE Formatted	Int. Drive	SPEED	WARRANTY	PRICE
420Mb	Quantum Trailblazer	14ms	2Yr	$\$320^{95}$
540Mb	Quantum Maverick	14ms	2Yr	$\$307^{95}$
530Mb	Fujitsu	12ms	2Yr	$\$320^{95}$
540Mb	Quantum Fireball	11ms	2Yr	$\$355^{95}$
540Mb	Quantum Lightening	11ms	2Yr	$\$320^{95}$
730Mb	Quantum Lightening	11ms	2Yr	$\$367^{95}$
728Mb	IBM	12ms		$\$359^{95}$
850Mb	Quantum Trailblazer	14ms	2Yr	$\$435^{95}$
1.0Gb	Quantum Fireball	11ms		$\$489^{95}$
1.0Gb	Conner	<10ms	1Yr	$\$555^{95}$
1.0Gb	Conner	FAST WIDE	1Yr	$\$659^{95}$
1.0Gb	IBM	10.5ms	3Yr	$\$619^{95}$
1.0Gb	Fujitsu	10ms	3Yr	$\$609^{95}$
1.05Gb	HP 2490SE	10.5ms	5Yr	$\$625^{95}$
1.05Gb	Seagate	9ms	5Yr	$\$632^{95}$
1.05Gb	Seagate-FW	9ms	5Yr	$\$739^{95}$
1.2Gb	HP3724S	9.5ms	5Yr	$\$675^{95}$
1.75Gb	Micropolis	10ms	5Yr	$\$909^{95}$
2.0Gb	Micropolis	8.5ms	5Yr	$\$1085^{95}$
2.1Gb	Quantum XP32150S	8.5ms	5Yr	$\$1009^{95}$
2.1Gb	IBM	8.5ms	5Yr	$\$1305^{95}$
2.14Gb	Conner	8.5ms	5400rpm	$\$954^{95}$
2.14Gb	Conner	8.5ms	7200rpm	$\$1035^{95}$
2.1Gb	Seagate 32550N	9ms	5Yr	$\$1105^{95}$
2.1Gb	HP3725S	8.9ms	5Yr	$\$1085^{95}$
2.2Gb	Quantum VP32210S	8.5ms	5Yr	$\$959^{95}$
4.0Gb	Micropolis	8.5ms	5Yr	$\$1435^{95}$
4.3Gb	Seagate 15150N	8ms	5Yr	$\$1529^{95}$
4.2Gb	Conner	8.5ms	7200rpm	$\$1409^{95}$

NCA's

Barracuda II

External
FH Fixed SCSI Disk Drives

SIZE	Int. Drive	SPEED	WARRANTY	PRICE
Formatted				
3.0Gb	Micropolis 1936	11ms	5Yr	$\$949^{95}$
4.3Gb	IBM	8.5ms	5Yr	$\$1859^{95}$
9.0Gb	Seagate	11.5ms	5Yr	$\$3089^{95}$
9.1Gb	Micropolis 1991	10ms	5Yr	$\$2409^{95}$



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Quality Built SCSI Sub-Systems Since 1988

NCA's

Barracuda III

External
Tape Backup SCSI Devices

SCSI BACKUP:

SIZE(UPTO)	MAKE	MODEL	TYPE	PRICE
250Mb	WangTek	5150ES	1/4"	$\$405^{95}$
250Mb	Connor Viper	2150S	1/4"	$\$379^{95}$
525Mb	Conner Viper	2525S	1/4"	$\$555^{95}$
525Mb	WangTek	E5525S	1/4"	$\$515^{95}$
1.3Gb	Connor Viper	2750	1/4"	$\$897^{95}$
1.5Gb	Exabyte	FS1G		$\$739^{95}$
2.5Gb	Exabyte	EXB8205	8mm	$\$1389^{95}$
5.0Gb	Exabyte	EXB8505	8mm	$\$2098^{95}$
2.0Gb	HP	35470	4mm	$\$864^{95}$
2.0Gb	Connor Python	4320NT	4mm	$\$933^{95}$
2.0Gb	WangDat	3100	4mm	$\$829^{95}$
4.0Gb	Connor Python	4324	4mm	$\$933^{95}$
5.0Gb	Exabyte	EXB4200C	4mm	$\$899^{95}$
2-4.0Gb	HP	35480	4mm	$\$947^{95}$
4-8.0Gb	WangDat	3200	4mm	$\$869^{95}$
4-8.0Gb	WangDat	3400Dx	4mm	$\$1088^{95}$
4-8.0Gb	HP	C1533A	4mm	$\$1117^{95}$

MAC Backup Software	*add $\$69^{95}$*
NovaBack for PC or WIN	*add $\$29^{95}/\$59^{95}$*
Novell NLM Unlimited user	*add $\$339^{95}$*

EXTERNAL SCSI CD ROMs:

MAKE	MODEL	ACCESS	TRANSFER	PRICE
TOSHIBA	3601B	150ms	600Kb	$\$409^{95}$
NEC	3Xp	240ms	450kb	$\$325^{95}$
NEC	4Xe	220ms	600kb	$\$469^{95}$
Plextor	SIX-Speed	••NEW••	900kb	$\$629^{95}$
Plextor	Quad-Speed	1MB CACHE	600kb	$\$485^{95}$
Plextor	Quad-Speed	256 CACHE	600kb	$\$419^{95}$
PIONEER	604X	300ms	612Kb	$\$758^{95}$
PIONEER	1804	300ms	614Kb	$\$1778^{95}$
Backpack	DOUBLE-SPEED	250ms	300kb	$\$297^{95}$
Backpack	QUAD-SPEED	300ms	600kb	$\$322^{95}$

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External OPTICAL & Removable Cartridges by:
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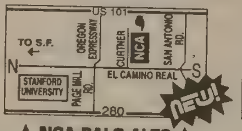

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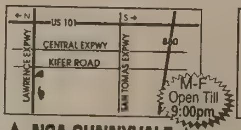

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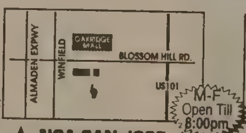

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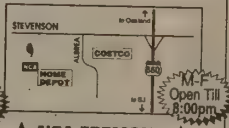

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HEWLETT PACKARD

The most reliable SCSI Tape Backups for MAC, PC ; SUN or Silicon Graphics

4GB *External* 4mm 3.5" SCSI DAT TAPE BACKUP

•732 Kbytes/Sec Transfer Rate (Sustained)
• 5 MB/ Sec (Synchronous)

INCLUDES: 1 CARTRIDGE & NOVABACK BACKUP SOFTWARE

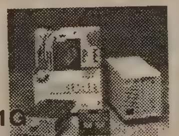
$\$987^{95}$

35480

SCSI 4mm DAT

CAPACITY	MODEL	INTERNAL	EXTERNAL
2.0GB	35470 DAT	$\$754^{95}$	$\$864^{95}$
2-4GB	35480 DAT	$\$848^{95}$	$\$947^{95}$
4-8GB	C1533A	$\$1009^{95}$	$\$1117^{95}$
HP Mounting Bracket for DAT tape drive			$\$35^{95}$

EXABYTE®



1.5 GB SCSI Tape Storage

COMPLETE SYTEM INCLUDES:
- Internal FS1G Tape Drive
- Adaptec 16-Bit SCSI Controller Card
- File Secure Software
- Up to 30 MB/Min. Transfer Rate
- One Data Cartridge

$\$645^{95}$

External FS1G Kit...$\$739^{95}$
Internal Unit (2501) $\$479^{95}$

4mm DAT Cartridge

CAPACITY	MODEL	INTERNAL	EXTERNAL
5GB	EXB-4200C w/software	$\$789^{95}$	$\$899^{95}$

2.5 GB 8mm DAT Subsystem

CAPACITY	MODEL	INTERNAL	EXTERNAL
2.5GB	EXB-8205	$\$1279^{95}$	$\$1389^{95}$

5 GB 8mm DAT Subsystem

CAPACITY	MODEL	INTERNAL	EXTERNAL
5.0GB	EXB-8505	$\$1988^{95}$	$\$2098^{95}$

CONNER *The BEST name in SCSI Back-up Drives*

SOF•STOR *SCSI*

for IBM Compatibles, MAC, SUN, & Silicon Graphics

Formerly ARCHIVE VIPER™

- ◆ 6MB/MIN
- ◆ SCSI
- ◆ 1/4" TAPE UNIT

- ◆ 36MB/MIN
- ◆ SCSI-2
- ◆ 1/4" TAPE UNIT

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INTERNAL ...$\$785^{95}$
EXTERNAL ..$\$897^{95}$

250 MB 2150S
INTERNAL ...$\$295^{95}$
EXTERNAL $\$395^{95}$
Int. W/Software $\$379^{95}$

525 MB 2525S
INTERNAL ...$\$445^{95}$
EXTERNAL ..$\$555^{95}$
Int. W/Software $\$535^{95}$

SCSI 4mm DAT Tape Backups

PYTHON™

- ◆ 11MB/MIN.
- ◆ 1MB Cache Buffer

2 GB. 4320 NT
INTERNAL ....$\$790^{95}$
EXTERNAL ...$\$895^{95}$

4 GB. 4324 TURBO
INTERNAL ....$\$822^{95}$
EXTERNAL ....$\$933^{95}$

4-8GB. 4352XP
INTERNAL .$\$1065^{95}$
EXTERNAL $\$1177^{95}$

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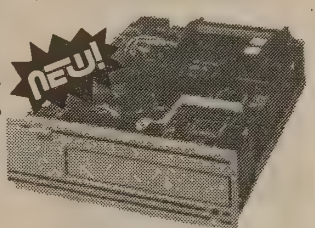

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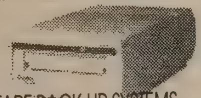
Uses 2120 Tapes

RUNS OFF FLOPPY PORT

CAPACITY	MODEL/TYPE	INTERNAL
400-800MB	4320A QIC 80 format	$\$199^{95}$
350MB	DJ30 JUMBO350	$\$149^{95}$
680MB	DJ25 JUMBO700	$\$242^{95}$
1.4GB	DJ50 JUMBO1400 w/CONTROLLER	$\$345^{95}$

350MB UPGRADE KIT (FROM 250MB TO 350MB)	$\$49^{95}$
EXTERNAL KIT WITH CARD AND CABLES KE-10	$\$109^{95}$
EXTERNAL TAPE PORT AB-11	$\$35^{95}$
FC-10 TAPE CONTROLLER, WITH CABLES	$\$78^{95}$
TC-15 HIGH PERFORMANCE 16-BIT CONTROLLER	$\$168^{95}$

Trakker™



PARALLEL PRINTER PORT EXTERNAL TAPE BACK-UP SYSTEMS

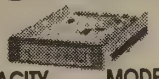
RUNS OFF PARALLEL PRINTER PORT

CAPACITY	MODEL/TYPE	EXTERNAL
350MB	TRAKKER 350	$\$329^{95}$
680MB	TRAKKER 700	$\$379^{95}$

POWER TAPES 4MM DAT TAPE BACKUPS

CAPACITY	MODEL/TYPE	INTERNAL	EXTERNAL
1.0GB	PT-10	$\$579^{95}$	$\$685^{95}$
2.0GB	PT-25	$\$919^{95}$	$\$1025^{95}$
4.0GB	PT-50	$\$1111^{95}$	$\$1234^{95}$

CONNER TAPE•STOR TAPE BACKUP



CAPACITY	MODEL/TYPE	INTERNAL	EXTERNAL
420MB	420FBE	$\$162^{95}$	$\$310^{95}$
850MB	850RFBE	$\$258^{95}$	$\$385^{95}$
4.0GB	4000RFBC	$\$519^{95}$	N/A

WangDAT™

Internal $\$984^{95}$

4-8GB

3400DX DAT Tape Backup

External $\$1088^{95}$

SCSI 4mm DAT

CAPACITY	MODEL	INTERNAL	EXTERNAL
2.0GB	3100 DAT	$\$719^{95}$	$\$829^{95}$
4-8GB	3200 DAT	$\$759^{95}$	$\$869^{95}$

WANGTEK

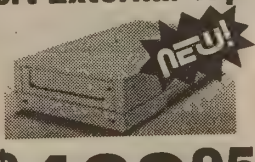
SCSI Tape

CAPACITY	MODEL	INTERNAL	EXTERNAL
250MB	5150S	$\$305^{95}$	$\$405^{95}$
525MB	5525S	$\$414^{95}$	$\$515^{95}$

MicroSolutions Computer Products backpack *Tape Drive*

900MB Parallel Port External Tape Backup

NEW!



- ▶ Speeds up to 9mb/min.
- ▶ QIC 3010 format, reads QIC-40 & 80 tapes
- ▶ Supports high speed EPP & 1284 ports
- ▶ Window and DOS Software Included
- ▶ 2 Year Warranty

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250/430MB Parallel Port External Tape Backup

QIC 80 uses 2120 tapes
Software for unattended backups
Twice as fast as internal floppy drive
Window and DOS Software Included
2 Year Warranty

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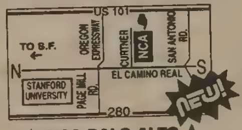

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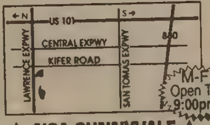

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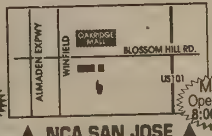

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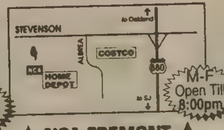

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HEWLETT PACKARD

1.3GB Multifunction Rewritable & WORM Drive
- ▶HP C1716T
- ▶SCSI-2 1.3GB

INTERNAL $\$1948^{95}$

EXTERNAL C2550 WITH CARTRIDGE $\$2299^{95}$

1.3GB Cartridge.............................$\$99^{95}$

IBM NEW!

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230MB, INTERNAL BASIC MAGNEDO REMOVABLE 3.5" $\$559^{95}$

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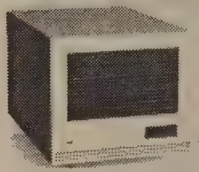
Multifunction Magento-Optical Disk Drive for 1-Gbyte and 650-Mbyte Rewritable and WORM Disk Cartridges, With up to 4-Mbytes Read/Write cache

PC OR MAC

Maxoptix™



1GB CART. glass/poly $179

- ▶ Unlimited Data Storage
- ▶ External SCSI Subsystem
- ▶ One Year Factory Warranty
- ▶ 25-Year Life Of Glass Media
- ▶ Embedded SCSI/SCSI-2
- ▶ Data Transfer of up to 13.2Mbits/Sec.
- ▶ Ultimate Back-up For NOVELL (Ready-to-boot Backup)

TAHITI IIIM - Multifunction
- ▶ 1MB Read/Wirte Cache
- ▶ 1.3GB Optical

$\$1968^{95}$

External Optical-1MB Cache....$\$2155^{95}$

TAHITI IIIM - Multifunction
- ▶ 4MB Read/Wirte Cache
- ▶ 1.3GB Optical

$\$2145^{95}$

External Optical-4MB Cache....$\$2345^{95}$

TAHITI 4 - Multifunction
- ▶ 1MB Read/Wirte Cache
- ▶ 5.25" / 1.3GB Optical

$\$1759^{95}$ NEW!

External Optical-1MB Cache....$\$1949^{95}$

TAHITI 4 - Multifunction
- ▶ 4MB Read/Wirte Cache
- ▶ 5.25" / 1.3GB Optical

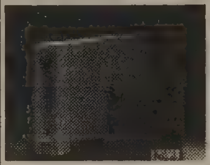
$\$1939^{95}$ NEW!

External Optical-4MB Cache....$\$2059^{95}$

FUJITSU NEW!

230MB Rewritable, Removable Optical SCSI Drives

External SCSI 230MB, 3.5" Rewritable Optical



- •External optical drive
- •Using 2512 internal
- •Includes 1 cartridge
- •Fast seek time
- •3600RPM
- •256K Cache
- •Software for MAC(free upon request)

$\$725^{95}$

Internal 230MB, 3.5" Rewritable Optical

- •Bare optical drive
- •2512
- •Low Profile, Only 1"
- •3600RPM
- •256K Cache
- •Fast Seek Time

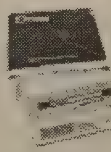
NEW! $\$549^{95}$

REMOVABLES

SyQuest

270MB SYQUEST REMOVABLE

External SCSI Drive
- •External 270MB 3.5" SCSI Removable Cartridge Drive
- •Unlimited Storage Capacity
- •270MB External Drive
- •Cables & Software for MAC
- •13.5ms Seek Time
- •Includes one cartridge

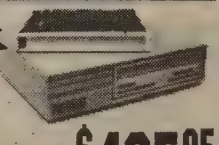


$\$465^{95}$

Internal Bare IDE Drive ....$\$329^{95}$

Internal Bare SCSI Drive.........$\$338^{95}$

200MB SYQUEST REMOVABLE



NEW!

External 200MB Drive
- • 200MB Cartridge
- • Cables
- • Installation Software (for MAC)
- • PC Software Included With Controller Purchase

$\$495^{95}$

Internal SCSI Bare Drive ....$\$355^{95}$

88MB C SYQUEST REMOVABLE

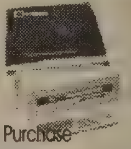
External 88MB C Drive
- • 88MB Cartridge
- • Cables
- • Reads & Write Both 44 & 88 MB
- • Installation Software (for MAC)
- • PC Software Included With Controller Purchase

$\$368^{95}$

Internal Bare Drive ....$\$239^{95}$

105MB 3.5" SYQUEST REMOVABLE

External SCSI 105MB Drive
- • 14ms Seek Time
- • 105MB Cartridge
- • Cables
- • Installation Software (for MAC)
- • PC Software Included With Controller Purchase



$\$368^{95}$

Internal SCSI Bare Drive.........$\$229^{95}$

Internal IDE Bare Drive ....$\$179^{95}$

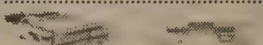
CAPACITY	SINGLE	5-PACK
44MB Cartridge (5.25")	$\$46^{95}$	$\$225^{95}$
88MB Cartridge (5.25")	$\$52^{95}$	$\$255^{95}$
105MB Cartridge (3.5")	$\$57^{95}$	$\$275^{95}$
200MB Cartrode (5.25")	$\$79^{95}$	$\$389^{95}$
270MB Cartridge (3.5")	$\$63^{95}$	$\$310^{95}$

TEAC

With bracket add $6

1.44MB 3.5"	$\$37^{95}$
1.2MB 5.25"	$\$45^{95}$
1.2/1.44MB Dual Drive	$\$91^{95}$

MITSUMI



1.44MB 3.5"	$\$29^{95}$
1.2MB 5.25"	$\$39^{95}$

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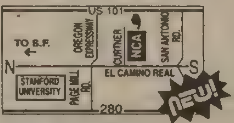

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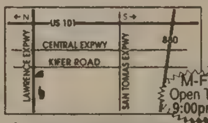

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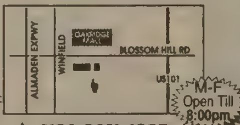

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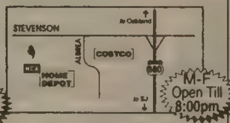

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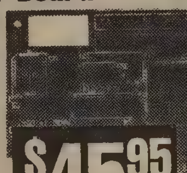
CONTROLLER CARDS

GSI Enhanced IDE Accelerator Boards

GSI Model 11

8-Bit Four-Floppy & QIC-80 Tape Accelerator Board



- High-speed 1MB/sec. floppy interface (up to four floppy drives)
- Doubles the speed of 250MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Supports "Media-Sensing" compatibilites of 2.88MB floppies
- Co-resides with other disk controller boards
- Perfect floppy or tape upgrade board

$45.95

GSI Model 18

IDE FAST-ATA

16- Primary or Secondary IDE Accelerator Board

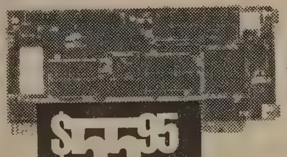
- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports two IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- Supports new high-capacity IDE hard drives
- Compatible with Windows, Novell NetWare, DOS & OS/2
- Tested and recommended by Micropolis, Fujitsu, Maxtor, Seagate, Western Digital, Quantum and Conner

$39.95

GSI Model 21

IDE FAST-ATA

16-Bit IDE, Floppy & QIC-80 Tape Accelerator Board



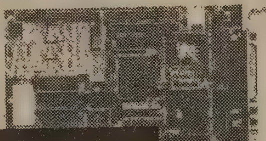
- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to two IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Compatible with Windows, Novell NetWare, DOS & OS/2

$55.95

GSI Model 32

IDE FAST-ATA

16-Bit Multi-Port IDE, Floppy, Tape, & I/O Accelerator Board



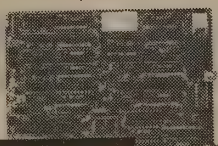
- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to two IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Dual 16550 UART serial ports & one bi-directional parallel port
- Compatible with Windows, Novell NetWare, DOS & OS/2

$109.95

GSI Model 4C

IDE FAST-ATA

16-Bit Four-Channel, Eight-IDE Accelerator Board



- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to eight IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- No drivers needed
- Perfect for Novell mirroring or duplexing
- Compatible with Windows, Novell NetWare, DOS & OS/2

$110.95

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CardPark™

NEW!

Dual-slot ISA-to-PCMCIA Card Adapter for Desktop PCs

- AVA 4510 ISA-to-PCMCIA adapter
- Dual-slot, accepts two PCMCIA cards, hot-swap operation
- Type IV slot supports Types I, II, & III cards up to 15mm thick
- Compatible with SRAM, Flash, & ATA-Flash, Fax/modem, LAN, SCSI, Sound, GPS, and mass storage PCMCIA cards
- Includes CardPark software

$174.95

SCSI AudioMachine™

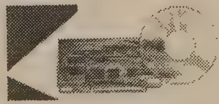
Experience the benefits of full SCSI with intergrated advanced audio.

- Features the AMM-1570 host adapter with full SCSI audio
- Includes full SCSI boot capability for high-capacity, high-performance drives
- Supports high-capacity removable SCSI devices
- Increases CD-ROM performance capabilitites with XA-Audio
- Ease of use provided by Adaptec EZ-SCSI™ & EZ-Audio™ intelligent installation software

$247.95

TotalCD™

16-Bit SCSI-2 host adapter for CD-ROM connectivity



- AVA 1505 ISA-to-SCSI-2 host adapter
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer

$46.95

TotalConnect™

16-Bit host adapter for multiple SCSI-2 peripheral connectivity

- AVA 1515 ISA-to-SCSI host adapter with BIOS
- Connect up to 7 SCSI devices
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer

$81.95

TotalAdvantage™VL

Complete 32-bit VL-to-Fast SCSI & VL-to-EIDE host adapter

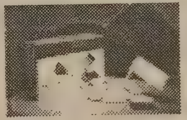
- AVA-2825 VL-to-Fast SCSI & VL-to-EIDE (enhanced IDE)
- Connect up to 7 SCSI devices
- Up to 2 standard or enhanced IDE devices
- Up to 2 standard and 1 floppy tape drive
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer

$149.95

SlimSCSI-II™ NEW RELEASE!

NEW!

Instant connection for portables to new peripherals, power & flexibility using the PCMCIA



- APA-1460 SlimSCSI-II host adapter
- Compatible with PCMCIA type II, type III & Toshiba type IV slots
- Fast 2MB/sec data transfer rate
- Convenient detachable 3-foot cable with reversible connector
- Low 0.5 watt power consumption for longer battery life
- Includes software for CD-ROM's, Phot CD's, SCSI hard drives, HP scanners, Magneto-optical, Syquest, Bernoulli, Floptical & SCSI tape drives.

$189.95

MiniSCSI™Plus & EPP Adapters

A fast, easy way to connect SCSI devices to your portable or desktop PC's parallel port

- APA-348 MiniSCSI Plus & APA-358 MiniSCSI EPP
- Simple external plug-in, perfect for notebooks
- Convenient, intergrated 3-foot cable
- Complete software for easy installation and full SCSI peripheral device support
- Simultaneous use of parallel port with 100% transparent pass through
- MiniSCSI EPP model supports up to 1MB/sec. when used with enhanced parallel port.

SlimSCSI™EPP APA-358	$147.95
SlimSCSI™Plus APA-348	$115.95

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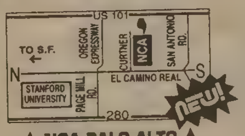

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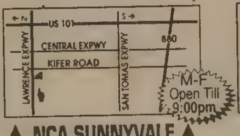

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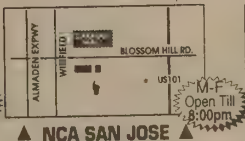

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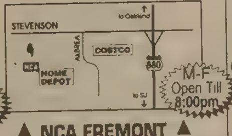

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CONTROLLERS

SCSI CONTROLLERS

adaptec

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
1505	TOTAL CD 16-BIT SCSI-II	$\$46^{95}$
1522	16-BIT 7HD/2FD KIT	$\$133^{95}$
1542CF	BUS MASTER COMPLETE KIT	$\$235^{95}$
1640	MICROCHANNEL FOR PS/2, 7HD	$\$284^{95}$
1515	Total Connect ISA to SCSI host adapter w/ BIOS	$\$81^{95}$
2825VL	TOTAL ADVANTAGE VL	$\$149^{95}$
2742/W	Fast Wide SCSI EISA	$\$353^{95}$/$\$375^{95}$
2842A	Fast SCSI-II VESA	$\$234^{95}$
AHA-1460	Slim SCSI PCMCIA SCSI Card	$\$189^{95}$
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$\$278^{95}$
AHA-2940W	PCI FAST-WIDE SCSI	$\$345^{95}$
APA-358	SlimSCSI EPP	$\$147^{95}$
APA-348	SlimSCSI PLUS	$\$115^{95}$
EZ-SCSI	SOFTWARE	$\$65^{95}$
AVA-4510	Card Park Dual Slot ISA to PCMCIA adapter	$\$174^{95}$
AVA-1570	SCSI Audio Machine-full SCSI w/integrated audio	$\$247^{95}$
3940	Twin Channel PCI	$\$405^{95}$
3940W	Twin Channel PCI wide	$\$479^{95}$
3985	PCI RAID Adapter w/ 3RISC Processors	$\$734^{95}$

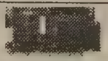
SEE PAGE 11 FOR NEW ADAPTEC PRODUCTS!

DATA TECHNOLOGY CORPORATION

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC 3280AS	16-Bit ISA to SCSI Host Adapter	$\$173^{95}$
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	$\$119^{95}$
DTC3274VL	SCSI-II Bus Mastering	$\$179^{95}$

PROMISE TECHNOLOGY,INC.



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-440	VLB SCSI-2 BUS MASTER w/IDE Interface	$\$176^{95}$

ADVANSYS®

See Page 13

qlogic Corp.

FAST!SCSI EISA FL

Host Adapter Card for the EISA Bus $\$198^{95}$

- Patented 400 Series high-speed SCSI processor
- CorelSCSI for CD-ROM & HDD included FREE
- Uses a single 32-bit EISA slot
- Comprehensive software support
- 50-Pin internal SCSI cable with support for 3 devices provided
- Floppy connector supports 2 floppy drives
- Supports up to 7 SCSI devices

Host Adapter Card for the PCMCIA Bus	$\$175^{95}$
Host Adapter Card for the VESA Local Bus FL	$\$184^{95}$
Host Adapter Card for the ISA Bus FL	$\$109^{95}$

FAST!SCSI PCI Basic

Host Adapter Card for the PCI Bus $\$111^{95}$

- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

FAST!SCSI IQ PCI Wide

Host Adapter Card for the PCI Bus $\$289^{95}$

- Bus Master
- Uses a single PCI slot
- Fast(10MB/sec.) & Wide(20MB/sec)SCSI cabability
- High speed ISP1020 12 MIPS RISC SCSI processor
- Supports up to 15 SCSI devices

FAST!SCSI IQ PCI-10

Host Adapter Card for the PCIA Bus $\$199^{95}$

- 12 MIPS RISC SCSI processor
- Over 4000 512-byte block I/Os p.s.
- Uses a single PCI slot
- Supports Fast SCSI-2 (10MB/sec.)
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high-density internal connector, including ribbon cable with support for 3 internal devices

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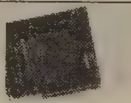


SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
20	PCI SCSI Host Adapter, Sup. Wide SCSI-3	$\$219^{95}$
40	PCI SCSI Host Adapter, Corel SCSI Wide SCSI-3	$\$269^{95}$

BUSLOGIC

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT545C	ISA Bus Master Fast SCSI Adapter Kit	$\$209^{95}$
KT445C	Bus Master Fast SCSI Kit for VL Bus	$\$193^{95}$
KT742A	EISA Bus Master SCSI-II Adapter Kit	$\$279^{95}$
KT747C	EISA Bus Master Fast SCSI	$\$299^{95}$
KT757C	FASTWIDE SCSI Card	$\$349^{95}$
KT946C	Bus Master Fast SCSI for PCI Local Bus	$\$254^{95}$

IDE CONTROLLERS

TekRam **Enhanced IDE PCI**

MODEL	DESCRIPTION	PRICE
	Enhanced IDE PCI controller w/I/O	$\$39^{95}$

IDE CONTROLLERS

NCA'S STANDARD IDE

IDE CONTROLLERS

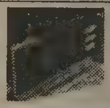
MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	$25.95
223EH	**2HD/2FD for VESA LOCAL BUS 16550 I/O**	**$44.95**

BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT510A	IDE Cache Contoller For PC/AT Sys.	$84.95
KT410A	IDE Cache Controller for VLB	$118.95
KT910A	IDE PCI Cache Controller	$164.95

PROMISE TECHNOLOGY,INC.

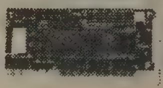


IDE CACHING CONTROLLERS

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD 2.88MB Floppy support	$87.95
DC-420VLB	VESA IDE 512K Cache	$94.95
DC-4030-VL-2	VESA IDE 2.88MB support 4HD/2FD	$97.95
DC-200M	ISA IDE 512K Cache 4HD/2FD 2.88 Support	$91.95
DC2032	ISA Caching controller	$123.95
DC-2300+	E-IDE w/16550 IO	$49.95

gsi™ Intelligent Accelerator/IDE Boards



IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
GSI 11	8-Bit 4FD/Tape Accelerator Board	$45.95
GSI 18	16-Bit 2 IDE Devices	$39.95
GSI 21	16-Bit 2FD/Tape Backup	$55.95
GSI 32	16-Bit Multi Port IDE/Tape & I/O	$109.95
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DTC 2130d	PCI Local Bus host adapter	$24.95

WONDER 16550 IDE CARD

ISA

2 IDE DRIVES/4 FLOPPY

2 HIGH SPEED 16550 SERIAL PORTS + 1 SERIAL

1 PARALLEL PORT / 1 GAME & 1 BI DIRECTIONAL PARALLEL PORT

$\$69^{95}$

16650 I/O Controller.....$27.95

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13-Port Super I/O Card

4 INTEGRATED NS16550 HIGH SPEED UARTs

- 2 IDE HD • 4Floppy
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- 1 Game

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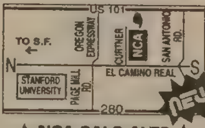

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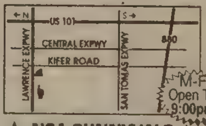

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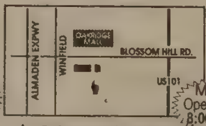

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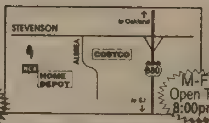

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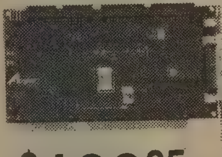
The central core of AdvanSCSI host adapters remains the same for all PCs. Custom logic is employed to provide optimum performance with each specific bus. The bus does make a difference; AdvanSCSI on one of the newer 32-bit buses (VESA or PCI) will outperform AdvanSCSI on the old 16-bit ISA standard. But thats's only relative. No matter what bus you use no other host adapter will outperform AdvanSCSI.



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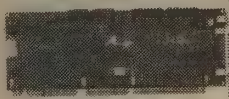
ISA Bus Master

The ABP-542 provides AdvanSCSI technology for the ISA Bus. Supporting Plug and Play this host adapter has a 2.88 MB floppy controller, and both internal and external SCSI connectors.

- AdvanceWare automated installation in NON-Plug & Play systems
- No jumpers to set
- AdvanceWare menu driven configuration program
- DOS/Windows drivers-autoload program
- Second generation 32-Bit 50MHz RISC embedded processor
- High performance Scatter/Gather will support over 1700 segrams
- Limited lifetime warranty



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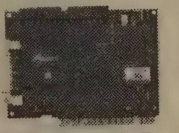
VESA Bus Master

The ABP842 is the highest performance host adapter available on the VESA Local Bus. The host adapter has a 2.88 MB floppy controller, and both internal and external SCSI connectors. VESA burst mode supported at 120 MB/s.

- AdvanceWare automated installation in NON-Plug & Play systems
- No jumpers to set
- AdvanceWare menu driven configuration program
- DOS/Windows/OS/2 drivers-autoload program
- Second generation 32-Bit 50MHz RISC embedded processor
- Supports VL Burst Mode-up to 120mb/sec. transfer rate
- High performance Scatter/Gather will support over 1700 segrams
- Limited lifetime warranty



$\$145^{95}$

PCI Bus Master

The ABP940 brings the advantages of the AdvanSCSI family to the new standard PCI Bus. This host adapter sets a new standard for the industry.

- No jumpers to set
- AdvanceWare menu driven configuration program
- DOS/Windows/OS/2 drivers-autoload program
- Second generation 32-Bit 50MHz RISC embedded processor
- Local memory architecture for highest performance
- High performance Scatter/Gather will support over 1700 segrams
- Supports PCI Burst Mode-up to 120MB/sec. transfer rate
- Limited lifetime warranty

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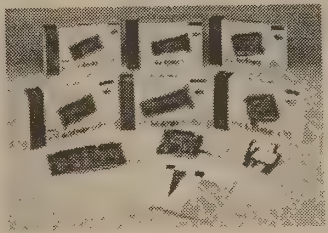
BUSLOGIC

Bus Master SCSI Accelerator Host Adapters



- Fast SCSI-2 data transfers of up to 10MB/second
- Fast & Wide SCSI-2 data transfers of up to 20MB/second
- Support for up to 7 or 15 (Wide) SCSI devices and dual floppy (not supported on PCI)
- Compatible with all major operating systems & SCSI peripherals
- Simple to install & configure using the AutoSCSI utility
- Includes award-winning CorelSCSI for CD-ROM

KT-545C	ISA	$\$209^{95}$
KT-445C	VESA	$\$193^{95}$
KT-747C	EISA	$\$299^{95}$
KT757C	Wide EISA	$\$349^{95}$
KT-946C	PCI	$\$254^{95}$
KT-956C	Wide PCI	$\$307^{95}$

IDE Disk Accelerators Outperform All Enhanced IDE Controllers

- Reduce average disk access time to as low as 0.3ms
- AutoIDE utility for ease of installation & configuration
- Cache expandability from 512KB to 16MB
- Disk mirroring support for 100% disk fault tolerance
- Attatch up to 4 IDE drives, up to 4GB each
- Green Mode reduces power consumption

KT-510A	ISA	$\$84^{95}$
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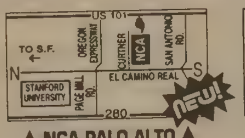

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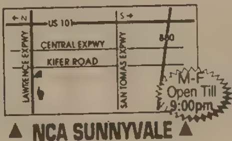

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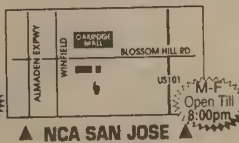

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CHINON CDS-525S

SCSI-II Double-Speed CD-ROM Drive

- 280ms average access time
- 300Kb/sec
- Photo CD
- MPC-2 compliant
- 64K SRAM buffer
- Caddyless

While Supplies Last!

NEW!

$119.95

External for Mac or PC..........$229.95

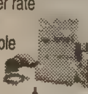
TEAC SuperQuad 4X

CD-ROM Drive With Interface

- 600 Kbytes/sec. transfer rate
- 195msec access time
- Sound Blaster compatible

Includes:
CD-ROM Drive
Installation software
TEAC AT interface board
Mounting hardware
Installation manuals

CD55A



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Quad-Speed CD-ROM & 3.5" Floppy Drive in Single Bay

CF506A

- 3.5" floppy drive
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- 195msec access time
- Sound Blaster compatible

Includes:
CD-ROM Drive
Installation software
TEAC AT interface board
Mounting hardware
Installation manuals

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TOSHIBA 3601B

NEW!

- ▶Caddyless
- ▶SCSI -II Fast Quad-Speed CD-ROM
- ▶150ms/600kb/sec
- ▶Multi-spin/Multi-speed
- ▶256K cache

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MITSUMI 4X FX400B

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Quad-Speed CD-ROM Drive

- Multisession Enhanced IDE
- Software
- Caddyless
- 600MB CD capacity
- Can co-exist w/second AT CD-ROM

$185.95

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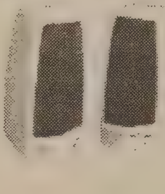

Includes AC Power Adapter

64555

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Brainstorm

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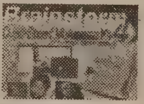
SCSI QUAD-SPEED MULTIMEDIA KIT

NEW!

- NEC SCSI Quad-Speed CD-ROM
- Sound Blaster 16 SCSI-11 w/o ASP sound card
- Labtec CS-180 speakers
- **30 HOT CD-TITLES**



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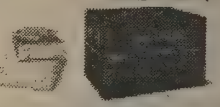
Formerly Texel



Six-Speed SCSI-II Internal CD-ROM Drive

6PLEX

- ▶ SCSI-II **SIX-SPEED**
- ▶ 900KB/Sec.
- ▶ 256K Buffer
- ▶ MPC Level 2
- ▶ 2 Yr. warranty

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CD-ROM Drive

MicroSolutions

Quad-Speed Parallel Port External CD-ROM Drive

- No Slot plug-n-play
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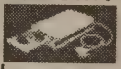
- Ideal for Notebooks or Desktops
- DOS OS/2 Device drivers
- Supports new high speed EPP & IEEE 1284 ports



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Double-Speed Parallel Port External CD-ROM Drive

- 250ms
- 300Kb/sec.
- Double-Speed High Performance Drive
- Ideal for Notebooks or Laptops
- Supplied device drivers
- Multi-Session Photo CD compatible

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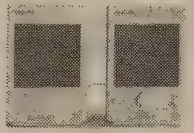
Labtec



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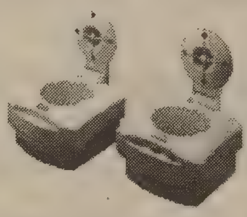

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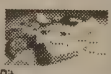
MultiSpin 2V Deluxe

Double-Speed CD ROM Reader

- 300Kb/sec. CD-ROM reader
- 320ms access time
- 256k cache
- XA ready
- Multisession Photo CD
- Includes Creative Labs 16-Bit sound card
- Speakers & batteries
- Software titles:Microsoft Encarta, Myst & Sim City



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Double-Speed CD ROM Reader

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- 320ms access time
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- XA ready
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- 500Kb/sec. CD-ROM reader
- 240ms access time
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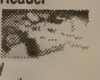
- Full audio controls & XA ready
- Multisession Photo CD
- Complete with SCSI cable & interactive tutorial CD



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Quad-Speed CD ROM Reader

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- MiniChanger, featuring QUADRASPIN™

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- ▶ 300ms/ Fast 612Kb/Sec

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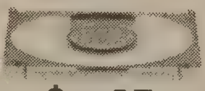

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7 Disk CD-ROM Changer

- 300KB data transfer rate
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- SCSI-II interface
- Integrated drive software
- High performacne 2X drive
- 64K buffer
- Changes disks in less than 5 seconds
- 1 year warranty, 48hr. replacement

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SunMoon Star

NEW!

Double-Speed Enhanced IDE CD-ROM Drive w/Card

- Sony 55e Enhanced IDE drive
- 250ms access time/300Kb ps
- 256K cache memory
- High performance ATAPI
- Supports Multi session Kodak Photo CD

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Audio Cables for most CD-ROMs & Sound Cards

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- ▶ Caddyless, MPC Level 2

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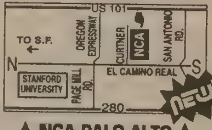

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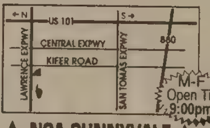

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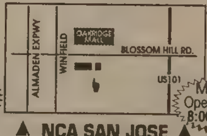

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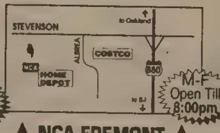

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YAMAHA POWERED MONITOR SPEAKERS

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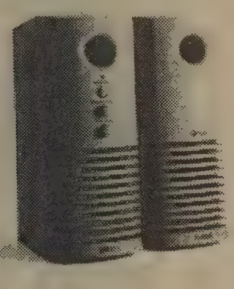
- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

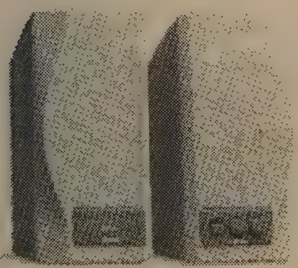


NEW LOWER PRICE!

$39.95

YST-M10

- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"



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YAMAHA POWERED SUBWOOFER

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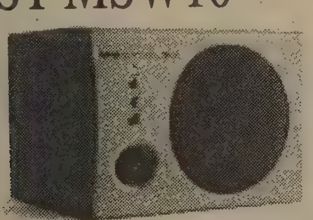

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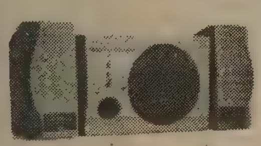

YST-M10 SPEAKERS:
- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

YST-MSW10 SUBWOOFER:
- 25 Watts
- Video Shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-Like sound
- 35Hz-250KHz ± 10dB

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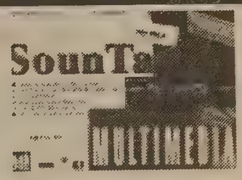

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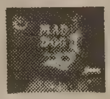

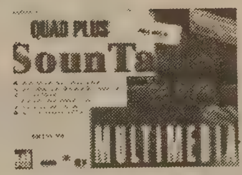

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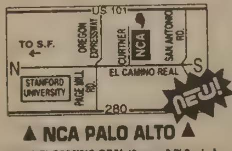

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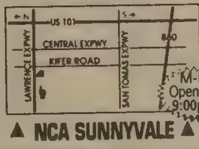

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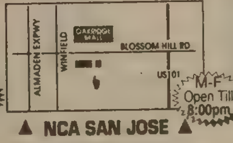

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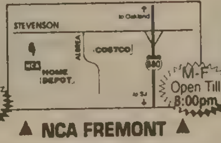

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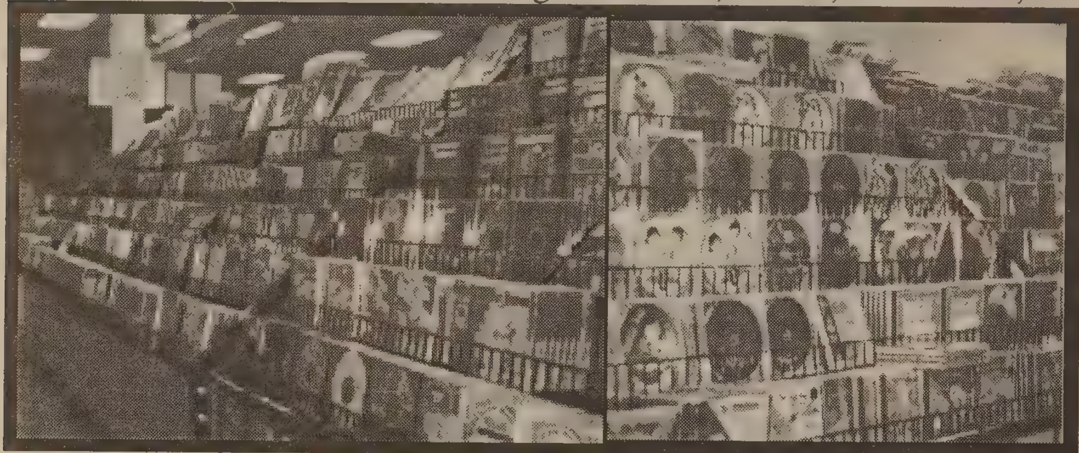

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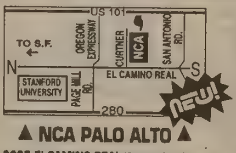

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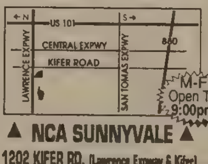

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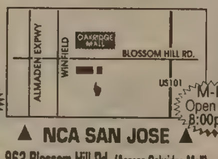

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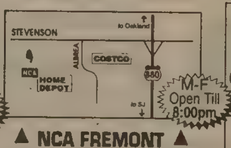

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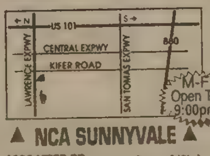

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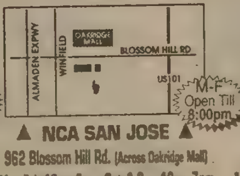

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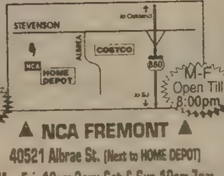

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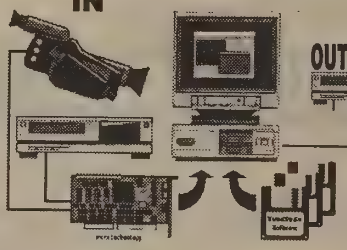

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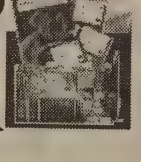

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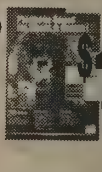

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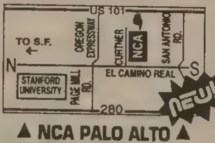

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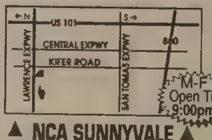

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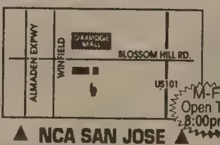

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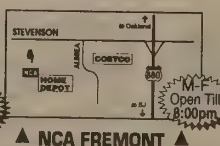

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HIGH QUALITY UPGRADES

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Video Cards

Kelvin 64
64-Bit Windows Graphics Accelerator
PCI, VLB OR ISA

1MB DRAM 64-Bit	$\$135^{95}$
2MB DRAM 64-Bit	$\$195^{95}$

Kelvin EZ **PCI OR VLB**
32-Bit Windows Graphics Accelerator

1MB DRAM 32-Bit	$\$115^{95}$

Fahrenheit 64 **PCI OR VLB**
64-Bit Fast True Color Windows Accelerator

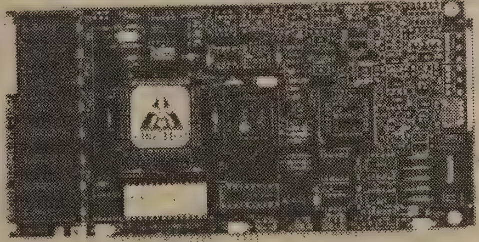
1MB DRAM 64-Bit	$\$144^{95}$
2MB DRAM 64-Bit	$\$194^{95}$

Fahrenheit PRO 64 **PCI OR VLB**
64-Bit Extremely Fast True Color Windows Accelerator

1MB VRAM 64-Bit	$\$298^{95}$
2MB VRAM 64-Bit	$\$448^{95}$

Multimedia

ORCHID



Vidiola *Video capture, edit and playback Solution*	$\$339^{95}$
Vidiola PRO/C *Desktop Video Editing Solution*	$\$469^{95}$
Vidiola PRO/D *Video capture, edit and playback Solution*	$\$529^{95}$
Vidiola PREMIUM Video output	$\$697^{95}$

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DIAMOND *Accelerating in Graphics and Multimedia*

Stealth 64 DRAM VLB/PCI *1MB/2MB*	*$135^{95}/$188^{95}*
Stealth 64 VRAM (PCI OR VLB) *2MB/4MB*	*$288^{95}/$425^{95}*
NEW! **Stealth 64 VIDEO (PCI OR VLB)** *2MB/4MB VRAM*	*$324^{95}/$464^{95}*
NEW! **Stealth VIDEO (PCI OR VLB)** *1MB/2MB DRAM*	*$172^{95}/$224^{95}*
NEW! **Viper PRO VIDEO** *with 2MB/4MB VRAM PCI*	*$406^{95}/$558^{95}*
Viper SE VLB *with 2MB/4MB VRAM includes CORAL 3.0*	*$307^{95}/$469^{95}*
Viper SE PCI *with 2MB/4MB VRAM includes CORAL 3.0*	*$307^{95}/$469^{95}*
SPEED STAR 64 *PCI or ISA 1MB/2MB DRAM*	*$143^{95}/$189^{95}*
SpeedStar Pro SE *1MB/2MB DRAM VLB or PCI*	*$104^{95}/$160^{95}*
GAMES ACCELERATOR KIT. *PCI or VLB WITH 15 CD TITLES*	*$149^{95}*

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2MB VRAM	*Upgrade for Viper SE*	*$175^{95}*
2MB VRAM	*Upgrade for Stealth 64*	*$175^{95}*
1MB DRAM	*Upgrade for Stealth 64*	*$80^{95}*
1MB DRAM	*Upgrade for SpeedStar 64*	*$80^{95}*

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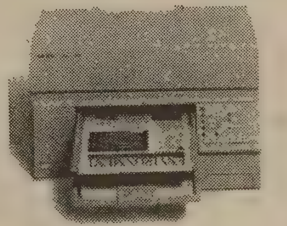

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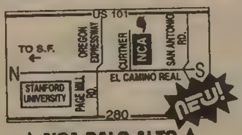
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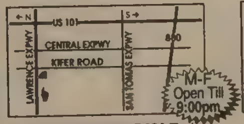
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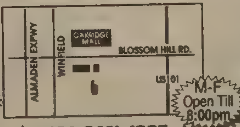
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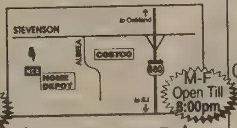
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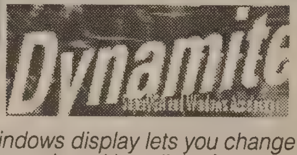
VIDEO CARDS

Hercules

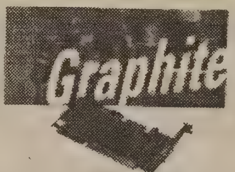
The Fastest Real-World Windows Accelerator



Hercules Picture Windows display lets you change your Windows display setting with a click of a mouse!

D301	Dynamite Pro 1MB DRAM ISA Bus	$164.95
D302	Dynamite Pro 2MB DRAM ISA Bus	$199.95
D601	Dynamite Pro 1MB DRAM VLB	$155.95
D702	Dynamite Power 2MB DRAM VLB	$192.95
D902	Dynamite PCI Pro 2MB DRAM PCI	$199.95

Blazing 32-Bit
Accelerator for
Windows and AutoCAD
High Refresh Rate-
Dual Ported VRAM
2-Year Warranty



PG310	Graphite Power 1MB ISA	$235.95
PG420	Graphite Power 2MB ISA	$310.95
PG 610	Graphite Power 1MB VLB	$222.95
PG720	Graphite Power 2MB VLB	$310.95

HERCULES

The Complete 64-Bit Solution-SuperStable Refresh Rates up to 150Hz-Unrivaled, World-Class Service & Support

GT2020 2MB PCI/VLB	$333.95
GT2040-4MB PCI/VLB	$479.95

STINGRAY

S601E Pro	Stingray VLB 1MB DRAM NEW!	$99.95
S801	Stingray PCI 1MB DRAM	$109.95
S1201V	Stingray Video 64 1MB DRAM PCI	$159.95
S1202V	Stingray Video 64 2MB DRAM PCI	$199.95

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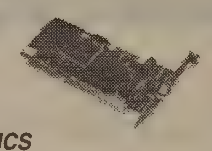
MATROX MGA POWER GRAPHICS



HIGH-PERFORMANCE GRAPHICS ACCELERATOR

Revolutionary 64-Bit Architecture - DynaView 2D & 3D - Refresh Rate Up To 80Hz.

Impression Plus Upgrade	$219.95
Impression Plus 2MB PCI	$357.95
Impression Plus A/2MB ISA	$417.95
Impression Plus P12/220 PCI 220 Mghtz Ram Deck	$453.95
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Impression Lite PCI 2	$292.95
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Excellence in PC Graphics

9GXe 64 Breakthrough Graphics Accelerator

9GXe 64 PCI or VLB 1MB/2MB	$167.95/$234.95
9GXe 64 Pro PCI or VLB 2MB/4MB	$333.95/$499.95

9FX Motion 771 / 531 Graphics Accelerators

NEW!

9FX Motion 771 PCI or VLB 2MB/4MB	$284.95/$425.95
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9FX Vision 330 PCI BUS

64-Bit Power Accelerator

- Resolution exchange
- True hardware zoom
- Place windows
- Stop Box
- Instant status
- ColorPerfect
- Monitor adjustment
- Energy Star

NEW!

1MB........ $145.95
2MB........ $194.95

IMAGINE 128 GRAPHICS ACCELERATOR
PCI BUS 4MB VRAM

- NEW performance standard with 128-bit acceleration
- 4MB high speed VRAM
- Drawing bandwidth up to 500 million pixels per second
- Two memory windows for simultaneous host and imagine 128 access
- 65,536 colors (16BPP) up to a resolution of 1600x1200 pixels 16.8 million colors (32BPP) up to 1152X864 pixels
- Refresh rates up to 100Hz
- Simultaneous processing of sixteen 8-bit, eight 16-bit or four 32-bit pixels

$798.95

9GXe64Pro 1600 Powerhouse

9GXePro 1600 2MB PCI 1600x1200	$524.95
9GXePro 1600 2MB VLB 1600x1200	$524.95
9GXePro 1600 4MB PCI 1600x1200	$675.95
9GX2Pro 1600 4MB VLB 1600x1200	$675.95

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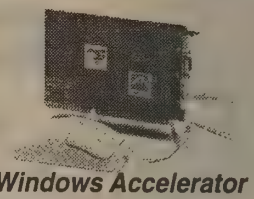


WIN TURBO 64-BIT, *Windows Accelerator*
2MB VRAM, 16.7 million colors, 1280x1024, Full Acceleration up to 16.7 million colors, Flicker free to 100Hz, Winswitch instant mode switching
ISA, PCI or VLB
$268.95

GRAPHICS EXPRESSION, *Windows Accelerator*
2MB DRAM, 16.7 million colors, 1280x1024, Multimedia video accelerator, multiple Bus support, 75Hz refresh
ISA, PCI or VLB
$209.95
1MB DRAM.........$154.95

GRAPHICS WONDER, *Windows Accelerator*
1MB DRAM, up to 16.7 million colors, up to 1280x1024, 76Hz flicker free display
ISA or VLB
$119.95

GRAPHICS ULTRA PRO
2MB VRAM, NI 1280X1024, accelerated 65,000 color graphics plus true-color, 76Hz flicker-free display, zero wait-state VGA
While Supplies Last
ISA, PCI or VLB
$259.95

GRAPHICS PRO TURBO 64
VRAM, Fast 64-Bit acceleration, Windows mode switching, enhanced Windows operation, flicker free refresh.
2MB VLB/PCI/ISA........ $335.95
4MB VLB/PCI/ISA........ $519.95

Jazz Multimedia **Jakarta**

MPEG Video

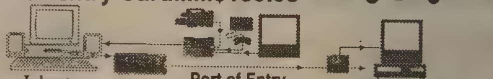
Graphics Accelerator

- Dramatically accelerates all Multimedia CD's including games & MPC titles
- 2MB window accelerator
- 24-bit, 16.7 million colors
- Plays full motion, full screen MPEG Video CDs with CD quality sounds
- Available in PCI or VLB

NEW!

$379.95

Projector Card	**$109.95**
Port of Entry Card	**$139.95**

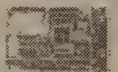


Jakarta
- World-class graphics accelerator
- Video for Windows & Quicktime acceleration
- Hardware MPEG video & audio playback

Port of Entry
- Cable-ready TV tuner
- Composite & S-Video & capture
- Simple software-controlled input selection for games, TV & video

Projector
- See & hear it all on your TV!
- Record it to your VHS, Beta or Hi-8 videotape
- Composite, S-Video & audio outputs

SVGA VIDEO CARDS



SVGA 256K Video Card	$29.95
SVGA 512K 1024X768	$39.95
SVGA 1024K 1024X768	$59.95
SVGA VESA Local Bus	$69.95
SVGA PCI 1024x768	$79.95

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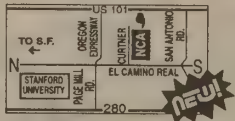

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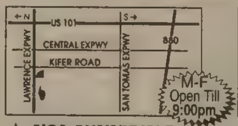

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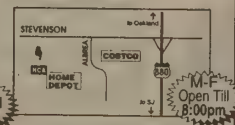

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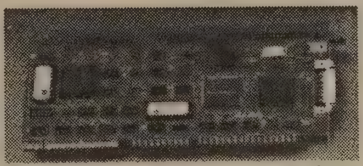
SPiDER Windows Accelerators
16.7 Million Colors



TARANTULA 64 VLB/PCI

NEXT GENERATION 64-BIT GRAPHICS

- 32-Bit True Color Palette DAC
- Up to 1600X1200 in 64K Colors
- True Color at 1024X768 N/I
- Energy Saving Green PC
- Virtual Screen, Resolution & Refresh on-the-fly

NEW LOWER PRICE!

2MB VRAM	4MB VRAM
$\$235^{95}$	$\$355^{95}$

TARANTULA LITE PCI/VLB

GRAPHICS ACCELERATOR

- Screen refresh rates up to 75Hz
- High resolution up to 1280x1024
- High color up to 16M-32BPP
- Display memory expandable to 2MB DRAM
- Spider Web: Windows Tools software

NEW!

1MB DRAM	2MB DRAM
$\$89^{95}$	$\$139^{95}$

SPiDER 256 CACHE

A Breakthrough in video Technology: Video Caching!

- 128KB Video Cache (exp. 256KB)
- 32-Bit VESA VL-Bus
- Hardware Cursor & Line Drawing, BitBlt
- 1MB of Display memory (exp. 2MB)
- 16 Million Colors
- Up to 1280X1024 in 256 colors
- Refresh Rate up to 75Hz (NI)
- Virtrual Screen, Adjust Screen and Refresh Rate Check

NEW LOWER PRICE!

1MB DRAM w/128C	2MB DRAM w/256C
$\$99^{95}$	$\$144^{95}$

SPiDER 64VLB/PCI

64-Bit Video Accelerator Card

- 64-Bit video memory interface
- 64-Bit BitBlt
- 16 Million Color in 32-Bit/Pixel format
- 1024X768 in 16 Million Colors ; 1280X1024 in 64K Colors
- High Refresh Rate: up to 75Hz (NI)
- Display memory Expandable up to 4MB
- Virtual Screen, Adjust Screen and Refresh Rate Check
- Bus available: VESA VL-Bus and PCI

NEW LOWER PRICE!

2MB DRAM	4MB DRAM
$\$154^{95}$	$\$243^{95}$

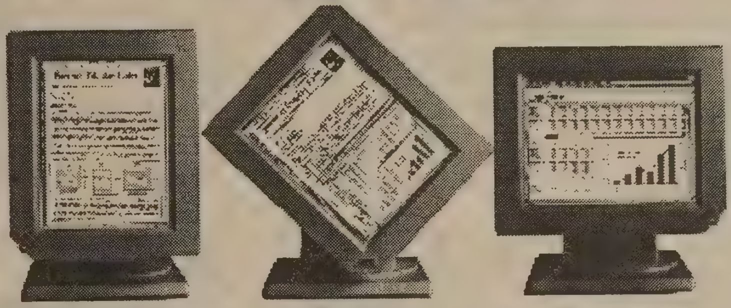
SPiDER 32VLB
1MB DRAM/2MB DRAM....................$\$79^{95}/\$124^{95}$

SPiDER 32VLB Plus
1MB DRAM/2MB DRAM....................$\$88^{95}/\$133^{95}$

Portrait/15 Plus

NEW!

Portrait Display Labs



15" Color SVGA Monitor

Full Page Display & Then Some!

- Pivots between portrait and landscape modes
- Allows full page document views
- .28 mm dot pitch, 75 Hz. refresh rate for crisp, flicker free images
- Up to 16 million colors, maximum 1024x768 resolution
- Flat square CRT design with built-in anti-glare screen
- Tilt & swivel base
- Meets Swedish MPR II standard for reduced emmissions
- Includes *MacPortrait*™& *WinPortrait*™video driver software and necessary cables

Pivot without closing applications!

For Mac & PC

$\$549^{95}$

Full One Year Replacement Warranty directly from Portrait Display Labs

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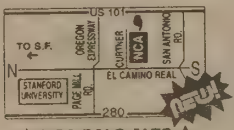
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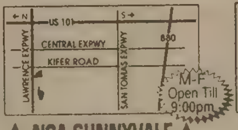
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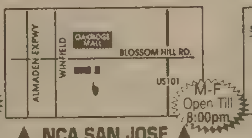
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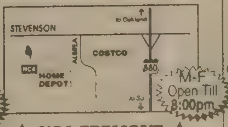
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State of the Art

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- 1280X1024
- Non-Interlaced
- .27dpi

$422.95

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ViewSonic-17
- 17" RGB Color Monitor
- 1600x1280 .27dpi
- Non-Interlaced
- Flat Screen

$858.95

ViewSonic-17G 1280x1024, 50-160Hz...$738.95
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- 20" RGB Color Monitor
- 1600x1200, .28dpi
- Non-Interlaced
- Dual Page Display

$1448.95

ViewSonic-21PS
- 21" Color Monitor
- 1600X1280
- .25dpi
- Non-Interlaced

$1739.95

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SuperScan™Pro15s
- 15" SVGA, Non-interlaced
- 1280x1024, .28dpi
- Flat Screen

$389.95

SuperScan™CM1797
- 17" SVGA Non Interlaced
- 1600x1200, .26dpi
- Flat Screen

$955.95

SuperScan™Pro 20
- 20" SVGA Non-Interlaced
- 1600x1280,
- Flat Screen
- CM2096

$1199.95

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Engineered in Europe for the World
Workstation & CAD Quality Monitors

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- 76Hz refresh
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- 1280x1024
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- Up to 76Hz refresh

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- Non-Interlaced

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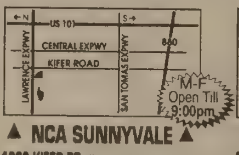

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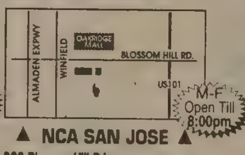

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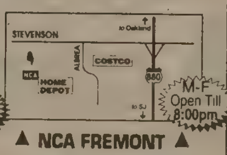

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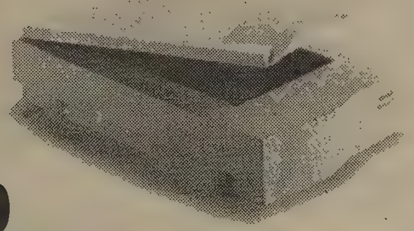
The Magic of Color™



T-630

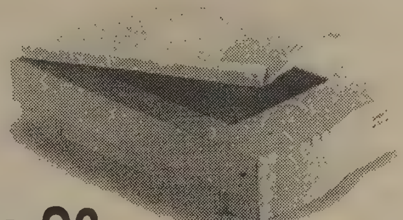
Your Affordable High Performance Color Scanner

- The Vista-T630 is the fastest 3 pass scanner on the market today
- Full spectrum cold-cathode lamp for longer life
- 4800 dpi maximum resolution with UltraView technology
- Transparency adapter available
- Document feeder available-50 page

PC Software
- ImageFolioLE
- Maxsoft's Wordlinx 2.0
- Corel Professional Photos
- Microsoft Home CD Sampler

MAC Software
- Color-IT
- Wordlinx 2.0
- Corel Professional Photos
- KPT Power Photos CD Sampler

$489.95



Vista-S6

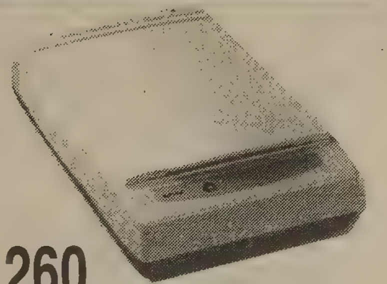
The New Low-Cost, High Speed Single-Pass Scanner

- 4800dpi high resolution
- Single pass with single cold cathode lamp technology
- De-screening, auto-sensity adjustment, filtering function
- Choice of 2 exciting software bundles
- TWAIN compliant
- Built in SCSI-II interface w/256K bus caching buffer
- Micro-stepping optical transmission for faster speed
- MagicMatch color management system
- Optional UTA

PC Software
- Adobe Photoshop LE
- Omni Page Direct
- SCSI card/cable
- TWAIN

MAC Software
- Adobe Photoshop LE
- Omni Page Direct
- SCSI cable & terminator
- Power cord

$665.95



UC-1260

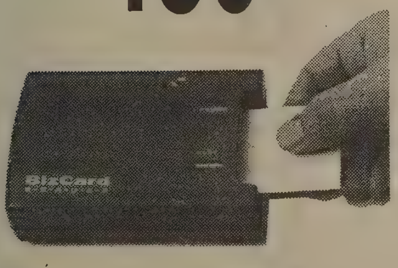
High Resolution Color Scanner

- Legal size scanning area
- 9600 dpi with Ultra-View Technology
- De-screening, auto-density adjustment, filtering function
- Choice of 2 exciting software bundles
- Batch & multiple scan capabilities
- TWAIN compliant
- Built in SCSI-II interface w/2MB bus caching buffer
- Optional ADF and UTA

PC Software
- Adobe Photoshop Full Version
- Ultra View-interpolation software 9600dpi
- Kai's Power Tools SE
- SCSI card/cable
- TWAIN

MAC Software
- Adobe Photoshop Full Version
- Ultra View-interploation software 9600dpi
- Kai's Power Tools SE
- SCSI cable
- TWAIN

$889.95



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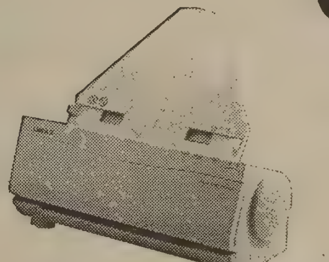

Page Office

Total Solution For Automatic Input

- Easy one-touch button scanning into Fax, E-Mail, Print, Edit & OCR
- 8-bit gray scale, 1 bit line art & text modes
- User programmable input buttons
- Fastest scanner in it's class
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- PageOffice is the only product available that links the piles of paper on your desk to the power of your PC.

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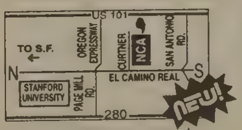

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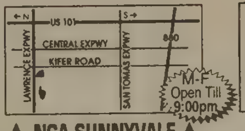

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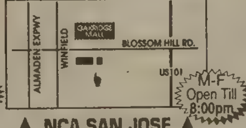

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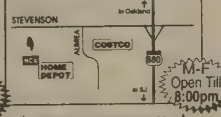

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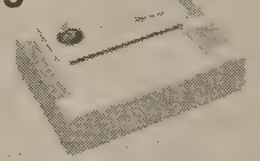
Info Products Teams High-Performance Scanners & Software For The Ideal Windows Scanning Solution



SF6CD: The ultimate color full page, desktop single pass, color scanner with a 30 page auto document feeder. Comes equipped with OmniScan SE, a combination of Caere's powerful Image Assistant, OmniPage Direct OCR, and Delrina's award winning WinFax Pro Lite. With the support of a fax/modem device and a 300dpi printer, the image reader can perform as a plain paper fax machine. Image Assistant provides professional image editing capabilities and OmniPage Direct eliminates the need to retype documents.

- 3-1200 DPI scanning resolution
- Line Art, 256 Gray Scale & 24-bit Color scanning
- TWAIN compatible
- No AC power required
- 24-bit processing
- Access to 16.8 million colors
- Single pass scanning
- Small foot print
- Auto diagnostic installation
- 30 page auto document feed
- Software included:
    - OmniScan SE
    - Image Assistant
    - WinFax Pro Lite

$499⁹⁵

SF12C: Image Reader 1200dpi color full page single-pass 24-bit color scanner with Image Pals Go LE imaging editor, Photo Album for image compression& storage, Interpreter 3.5 OCR, TWAIN compliant and INFO Technician for no fault installation.

- 3-1200 DPI scanning resolution
- Optical Character Recognition
- TWAIN compatible
- No AC power required
- 24-bit processing
- Access to 16.8 million colors
- Single pass scanning
- Small foot print
- Auto diagnostic installation
- Applications:
    - Desktop Publishing
    - Multimedia
    - Facsimile
    - Word Processing
    - Document Imaging

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Simply Awesome Features

Who packs 1200 DPI resolution and 16.8 million colors in a Windows scanner with a small footprint? Simple-Info Products! Scan line art, 256 grayscale and true color in a single pass. A built-in-30-page Automatic Document Feed is available.

Simply Advanced Software

Innovative software, like Info Technician, makes everything fast and easy, from installation to scanning images and documents.

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Take advantage of desktop publishing, multimedia, facsmile support, document imaging and other technologies with our Image Reader Scanners!

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14,400 bps Fax, 14,400 bps Data/V.42bis / MNP5
57,600 bps throughput/ Class 1 Fax, Caller ID

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Software Included:
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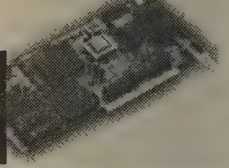

14.4 Plus External

14.4 Fax/Modem for PC

Software Included:
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WinFax Lite™ (Windows), FaxTalk® (DOS)
Cables & Manuals

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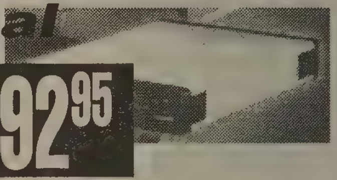

28.8 Internal

V.34

28.8 Data 14.4 Fax for PC

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COMit™ (DOS & Windows)
WinFax Lite™ (Windows), FaxTalk® (DOS)
Cables & Manuals

External 28.8 for PC $199⁹⁵

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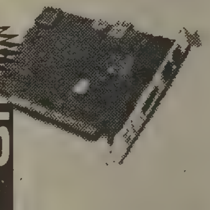

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14.4 Fax/Modem for MAC

- Top-Rated Data/Fax Software.
- Easy to Install, Easy to Use.
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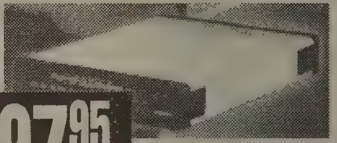

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- Caller ID, SilentAnswer™
- Works in PowerBook Models 100-180
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  °FAXstf™, °Compuserve
  °Information Manger™, °ARA Scripts • Manuals

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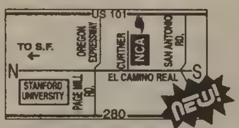

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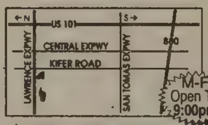

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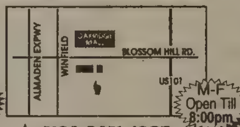

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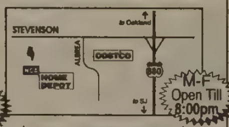

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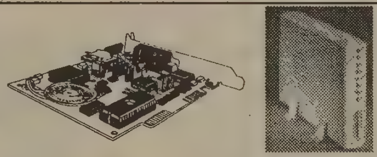

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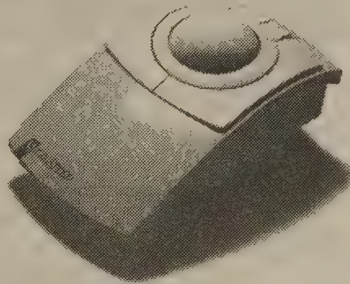

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TRACKBALL

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TRACKBALL

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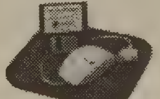

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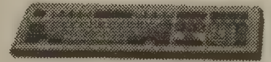

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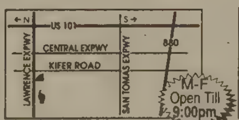
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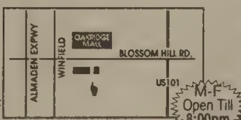
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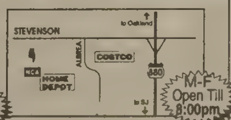
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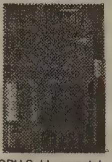

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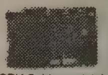

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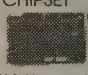

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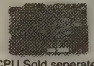

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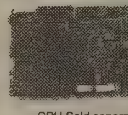

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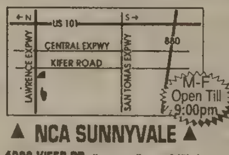

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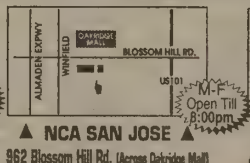

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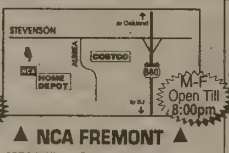

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OS/2 *continued from page 86*

tions that are loaded are system dependent, and on an EISA system, you can expect a little more room to be taken."

In other words, in my case OS/2 determined that it was okay to use 16MB out of 28, but your loading (and, thus, swapping) mileage will vary. Nevertheless, chances are that on a system with 8MB RAM or less, a basic Warp configuration with running applications will require some, if not considerable, swapping. So, while Warp will certainly run, and probably better than 2.1 too, this won't likely mean "running well" for most users.

For all these reasons, users are well advised, therefore, to throw as much memory at OS/2 as they can afford—it's the most effective use of their money. Claims to the contrary notwithstanding, a minimum of 16MB is neither inaccurate nor due to any bias on my part against OS/2. To the contrary: it is intended to make sure that users moving to OS/2 enjoy its true benefits without unnecessary disappointments due to unreasonable expectations instilled by misleading claims.

(I would like to thank Rick Papo, Tony Pereira, and Eric Vance from MSR Development for their help with this article; the programs mentioned do much more than what is described.) ■

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Internet *continued from page 110*

But just because you know how to operate the tool, that doesn't mean you can do anything really useful with it. Running SATAN is easy. Interpreting the results of a run, or setting its parameters to give you a meaningful run is a lot more difficult. SATAN requires you to have a fair amount of knowledge about network security.

For the security-naive, SATAN can in fact be quite misleading. It can give you a false sense of security. In its initial release SATAN checks for some of the more obvious security holes. If you believe these are the only security threats when connected to the Internet, you could be in for a surprise. SATAN does not check for some of the more subtle and lesser-known security holes.

SATAN's biggest innovation is its use of easy-to-use **Web** browsers as its **operational** front end. You can **control** and run SATAN from just about any Web browser.

SATAN, as we have said, is a platform. More sophisticated security checks can be added to it with relative ease. It also creates a database of host information for a network. These are perhaps its greatest strengths. Over time as more and more security experts enhance SATAN, it will no doubt become a more formidable tool. It is certainly a very good start and Dan and Wietse should be commended for their work.

Given what SATAN really does, the hype and hysteria before its release seem almost comical now. It just goes to show that the Internet community is just as susceptible to scare stories and unsubstantiated rumors as any other community. But the hype has done some good, in getting people to fix some outstanding and often glaring security problems in many networks on the Internet. ■

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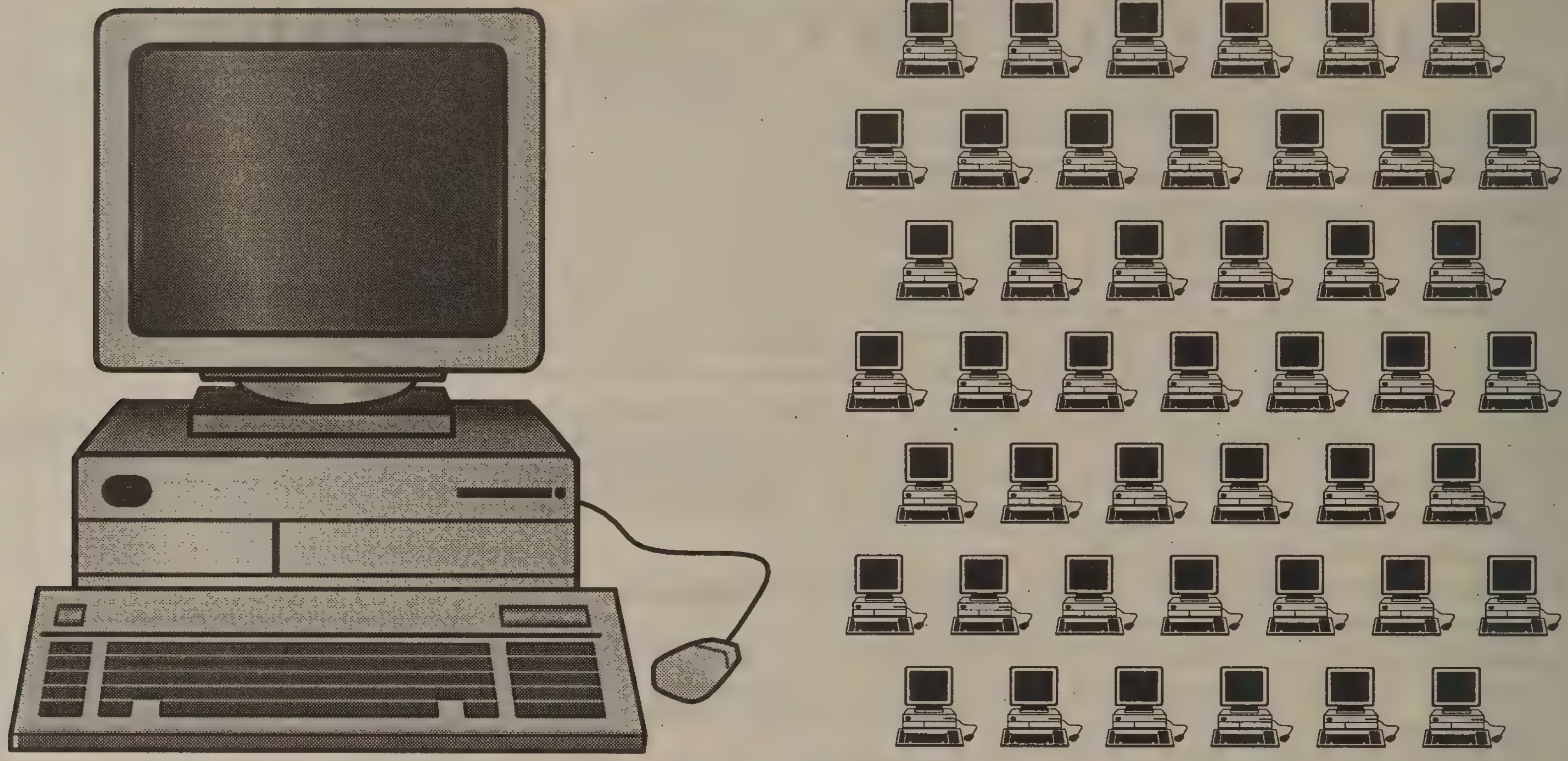

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- Mini Case w/230W PS
- 101 Key Enhanced Keyboard
- MS Compatible Mouse w/Pad

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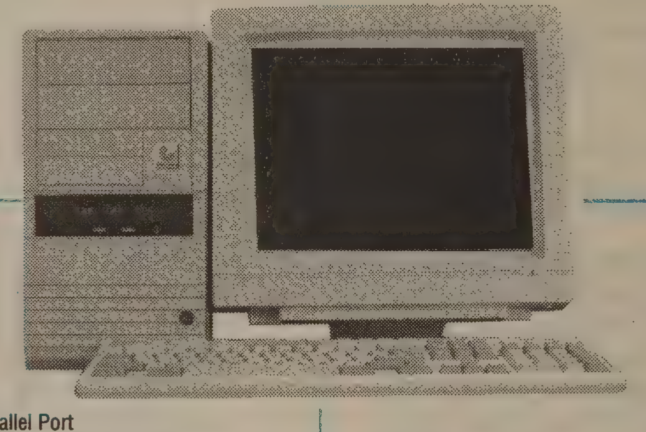
- Maxtor 850MB Hard Disk
- Windows Accelerator 32bit VLB Video Card 1MB
- 32bit VLB IDE Controller w/IO
- 15" Gvc Digital Controller
- 1280 X 1024 NI 1024x768 .28dp
- Mini Tower w/230W PS
- Keytronic101 Enhanced Keyboard
- Microsoft Serial Mouse w/Pad



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- Pair Of 25 Watt Speakers
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- Microsoft Serial Mouse w/Pad
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- Intel Triton Chipset Asus
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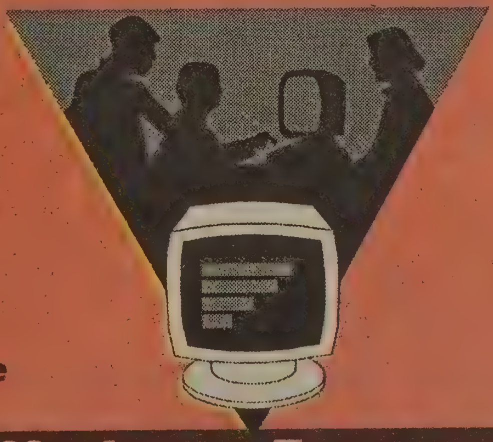

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- SIS Chipset
- 8MB RAM Memory
- 256K Cache Memory
- 4 PCI, 4 ISA 16 Bit Slots
- PCI Local Bus Enhanced IDE Controller
- PCI Stealth 64 Graphics Accelerator Card
- 1.44MB Teac/Mitsumi Floppy Drive
- 2 Serial (16550 UART), 1 Parallel
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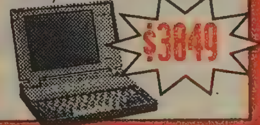

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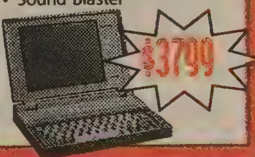

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- Double Speed, Multisession CD ROM Drive
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- 8 Titles

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- 1MB Windows Accelerator Card
- 14" SVGA Non-Interlaced Monitor
- 101 Enhanced Keyboard + MS compatible Mouse
- **16 bit Stereo Sound** card
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- Mini Tower Case w/230W P.S.
- **2 VL-Bus** Slot Motherboard **w/256K Cache** Memory
- 4MB Ram Memory
- 2FD/2HD IDE Controller
- 1.44MB Floppy Drive (3 1/2")
- **260MB** Hard Drive (14ms)
- 32 Bit VL-Bus Video Card /1MB
- **14" SVGA, N.I.** Monitor (.28dp)
- 101 Key Enhanced Keyboard

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AMD 486DX2-66	**$869**
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- Mini Tower Case w/230W P.S.
- 256KB External Cache Memory
- **4 -PCI / 2 -VL Bus** Slot Motherboard
- 4MB Ram Memory (72 Pin SIMMS)
- 1.44MB Floppy Drive
- **260MB** IDE Hard Drive (11ms)
- **1 MB PCI Diamond Speedstar** Video Card 16 Million True Color Display
- **14" N.I. Screen** SVGA Monitor (.28dp)
- 101 Key Enhanced Keyboard

Cyrix 486DX2-80	**$888**
AMD 486DX2-80	**$909**
AMD 486DX4-100	**$929**
Intel 486DX4-100	**$1049**

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- 256KB External Cache Memory
- **8MB Ram Memory** (72 Pin SIMMS)
- **1.44MB** Floppy Drive
- **540MB** Hard Drive (11ms)
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- **14" N.I. Screen** SVGA Monitor (.28dp)
- 101 Key Enhanced Keyboard

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Pentium 90MHz	**$1559**
Pentium 100MHz	**$1819**
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includes:
- Sound Blaster 16 Bit Stereo Sound Card
- 1 Pair of Shielded Speakers
- Sound Card software; **Grolier Encyclopedia** CD

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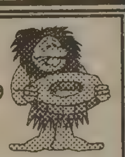

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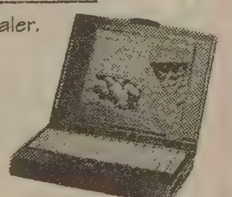

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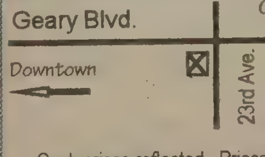

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Sound Blaster 16 MCD w/ASP	$99.99
Sound Blaster 16 SCSI	$98.99
Sound Blaster 16 MCD (Compatible)	$59.00

Creative Lab 2X Double Speed Kit

- Sound Blaster 16 Stereo Card
- Sanyo 2X CD ROM Drive (250ms, 300kb/sec)
- Pair of shielded speakers
- 1 FREE CD Title

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- Sound Blaster 16 Stereo Card
- Teac 4X CD ROM Drive (190ms, 600kb/sec)
- Pair of shielded speakers
- 1 FREE CD Title

$249.99

486 VLB-1

- Mini Tower case w/230W Power Supply
- 486 VLB Main Board w/256K Cache
- 486 CPU w/Heatsink & Fans
- 4MB SIMM Memory
- IDE Floppy/Hard Disk Controller
- 2 Serial & 1 Parallel Printer Port
- 1.44MB Floppy Drive (3.5")
- Conner 420MB IDE Hard Disk
- 32 Bit VLB SVGA card w/1MB RAM
- 14" SVGA Monitor (.28)
- 101 Keys Enhanced Keyboard
- Mouse

Cyrix DX2-66MHz	**$839**
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AMD DX2-66MHz	**$869**
AMD DX2-80MHz	**$888**
AMD DX4-100MHz	**$922**
Intel DX2-66MHz	**$922**
Intel DX4-100MHz	**$999**

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- Mini Tower Case w/230W Power Supply
- 486 VLB Main Board w/256K Cache
- 486 CPU w/Heatsink & Fans
- 4MB SIMM Memory
- IDE Floppy/Hard Disk Controller
- 2 Serial & 1 Parallel Printer Port
- 1.44MB Floppy Drive (3.5")
- Maxtor 540MB IDE Hard Disk
- 32 Bit VLB SVGA card w/1MB RAM
- 14" SVGA Monitor (.28)
- 101 Keys Enhanced Keyboard
- Mouse
- True 16 Bit Stereo Sound Card
- Sanyo 2X CD ROM Drive
- Speakers

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- Intel Pentium CPU w/Heatsink & Fan
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- Maxtor 540MB IDE Hard Disk

PCI Super VGA card w/1MB RAM

- **15" Impression .28dp NI Monitor**
- 101 Keys Enhanced Keyboard
- Mouse

Pentium 60MHz	**$1369**
Pentium 66MHz	**$1399**
Pentium 75MHz	**$1459**
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- SiS Pentium PCI Main Board w/256 Cache
- Intel Pentium CPU w/Heatsink & Fan
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- Maxtor 850MB IDE Hard Disk
- Diamond Stealth 64 PCI w/1MB DRAM
- **15" Impression .28dp NI Monitor**
- 101 Keys Enhanced Keyboard
- Mouse
- Creative Labs Sound Blaster Sound Card
- **Toshiba 4X Quad Speed CD ROM Drive**
- 70 Watts Speakers

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Pentium 66MHz	**$1799**
Pentium 75MHz	**$1849**
Pentium 90MHz	**$1949**
Pentium 100MHz	**$2099**

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- Mini Tower case w/230W Power Supply
- Intel Triton Pentium PCI Main Board w/256K Cache
- Intel Pentium CPU w/Heatsink & Fan
- **16MB SIMM Memory**
- Enhanced PCI IDE/IO Controller
- 2 Hi-Speed Serial & 1 Enhanced Parallel Port
- 1.44MB Floppy Drive (3.5")
- Maxtor 850MB IDE Hard Disk (11ms)
- Diamond Stealth 64 PCI w/1MB DRAM
- **15" Trintron SVGA .25 dp NI Monitor**
- 101 Keys Enhanced Keyboard
- Mouse
- Creative Labs Sound Blaster Card
- **Toshiba 4X Quad Speed CD ROM Drive**
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Medium Tower Case w/230W PS	$59
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Baby Desktop Case/Super Tower	$46/159

MAINBOARD WITH CPU'S

Pentium 586 PCI w/256 Cache	
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486 VLB w/128K Cache	
IBM SLC2-66MHz	$139
IBM 75MHz Blue Lightning	$199
Cyrix DX2-66/80	$159/$199
AMD DX2-66/80/DX4-100	$199/209/239
Intel DX2-66MHz	$239
Intel DX4-100MHz	$333
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Film In The Digital Age

continued from page 164...

the filmmaker machine and he gets to go, "Isn't that gorgeous. Don't we love film." But most of the audience never sees that. They see a more degraded version.

Also, in test after test, especially about things like HDTV, the audience doesn't want better *Rosanne*, they want more *Rosanne*; they want better content, or more content, or more interesting content. But looking at film, yeah that's fine. I think the industry tends to overemphasize the quality of film in film theater. Probably going to get strung up for that statement, but I am going to make it.

There is a film viewing experience. I think people still want that. Last year was the best year for film. The year before that was the best year to date for film. If we go to a digital distribution, I think it will be the best year for films again. I think we worry about it way too much.

If movies are being delivered digitally, does this point to the death of film?

No, we will always capture on film.

AFI does a lot of restoration and preservation of film. Film is a stable, mature medium. That is not equally true for digital media. Right now, you do not know how long any particular digital medium we are using today will survive or if the machines to read it will still be available.

That is also true of film. Understand that *Star Wars*, made in 1977, has to be restored before it is shown again. It has faded. All the Technicolor has faded. The original print is in danger of going away completely, over twenty years film falls apart completely, that's it. They have to be restored and preserved. So, if you can move all of that to digital preservation, we're fine.

It is going to be expensive, but read *Wired* magazine, every month it says we have to digitize everything. And clearly, why not? It is a wonderful thing that the American Film Institute preserves films. Who sees them? Five preservationists and maybe six other people. Great. We have tons of newsreels, fabulous. No one sees them.

The work of preservationists is not only to preserve what's there, but to also distribute it. Will we then have something that can go online? And in ten years will online be able to support full-frame, full-motion video? We all said yes, when we are all wired, when the convergence of Hollywood happens, when we have fiber into all of the homes. That is a very exciting possibility, to have people actually be able to look and search through everything. But saving film for film's sake, I don't know.

I hope your forecast of everyone wired and having access also comes true.

I am making no bets on that, especially with the way everybody is worried about pornography on the nets right now. We are going to have a fascist Net pretty soon.

Would you talk about how digital technology changes the way films are made?

It changes how films are pre-visualized, how films are conceived, shot lists, and production and design. It changes the way they are shot and the way an actor acts for a film. How do you act to a blue screen? It changes the way films are then seen as dailies, reedited, reshot, post-production, and sound—everything. It changes things completely, fundamentally.

Richard Dreyfuss recently said all of this at the Steven Spielberg Life Achievement Awards. But his funniest comment was, "I was going to write a book about my working with Steven and it was going to be titled *Steven and What Am I Supposed to Be Looking at Now?*" He said that most of the time when he works in Steven Spielberg films, "I have been working looking at big blue screens and everything was going to be done digitally later on."

People forget that the actor—in the middle of all of this—is being tremendously affected by digital technology.

Does the technology also change the hierarchy of the process of making movies? For instance, just being on the set at the time a scene is created and shot is no longer enough for the cinematographers, they must now be involved from beginning to end.

Yes. So does that give you more control artistically or less control artistically? Is it more of a collaborative process or less of a collaborative process? I don't know. It is really dependent upon the film; really dependent upon the director. For example, James Cameron is absolutely authoritarian in the vision he has in his head getting out. You work as a collaborator with him. Woody Allen on the other hand couldn't care less about the way the shot looks. He is really focused on the script and the performances within those shots. I think it is truly who is making the film as to how much digital technology changes the hierarchy.

Photography was once thought of as a medium of truth. Digital manipulation has changed that.

In 1889, Sir Arthur Conan Doyle went around the country proclaiming that he had photographed some fairies, which somebody had double exposed. But he totally believed the reality of those photographs. Photographs have always lied. Always. But I think that the general public doesn't know that.

Digital manipulation is just one more tool. It makes it easier to do those things. But I don't believe that photography or images have ever been real to begin with, so I don't see it as much of a change.

So when people are upset about an altered image on the cover of *TIME* magazine or...

Get a life.

Is it naiveté?

Well, no. I just think it is a bizarre thing to be worried about. It's like "Oh, my god! That image, was it real? Or did somebody darken up the side of it in the dark room, or did somebody crop out the McDonald's sign on the other side?"

It just seems like a really weird thing to be upset about. "Oh my god, that photograph isn't...." what? It's 2-D, for godsake, it is not even a 3-D image. It's a photograph.

What do you see as the issues surrounding copyright and ownership in this new digital age?

Since the beginning of time artists have lost control of their images. When the Pope wanted to repaint fig leafs over Michaelangelo's image at the edge of the Sistine Chapel, they did it. They owned the image.

Isn't it great and altruistic and wonderfully democratic of us to all worry about the poor

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Film In The Digital Age... *continued*

artist after they've sold the image to somebody else? But the person who owns the image owns the image.

Is it ethically right? Is it commercially right? Is it whatever? I don't know. I think it's stirring up a lot of hypothetical issues about a lot of things that aren't really happening. I think that, for the most part, ripping someone off has been called "referencing" in filmmaking since filmmaking started. Brian De Palma, every time that he makes a film rips off the conception of some other director. But we don't call it that. We call it a really wonderful reference to *Battleship Potomkin* or *The Correspondence* or Hitchcock, or whatever he fundamentally takes and does over again.

Is that a ripping off of the original artistic process? I don't know. I don't care. It was a nice film.

Along that line, is there an issue regarding ownership of the new medium? Is there a discussion in the field about things that are created digitally; for instance, who owns the models for creating an effect in filmmaking?

Yes, and we have a lot of these discussions and it gets off track really fast. We talk about a lot of esoteric, hypothetical situations that don't really happen. People aren't really ripped off. Yes, once in a while maybe something happens. I tend to think it is a real tempest in a teacup; I tend to think that we spend far too much time worrying about it. People are going to rip you off no matter what you do, if they want to.

What has been AFI's impact in the industry?

We produce some pretty wonderful filmmakers, screen writers, cinematographers, editors out of this program. We certainly have had a good impact in being a meeting place for people who are creating the new digital work—multimedia, CD-ROM, Web stuff. There are very few places where people can go to see other people's work or work in progress, or talk to other people. I think it is a really wonderful thing that we bring that conferencing ability to this new industry. I am most proud of that.

Where do you see things headed?

I think a lot more people are going to be interested in telling their personal visions.

And presenting them where?

On the five hundred channels we are supposed to be having on our TVs or in the film theaters, or whatever.

> **We really want to get back to the idea that no matter what the tool that you use is, this is what you need to know—you need to know about type on the screen, this is what you need to know about color and timing and emotional responses and those kinds of things.**

How active is AFI on the nets?

We'll have our own Web site and our own ATM line in next month, as soon as PacBell puts it in. We are going to be a huge presence on the Net. We are working with Microsoft Network as well as Blockbuster Video to deliver information.

Right now on the Net you can get to any kind of database about who did what film. What we're trying to do is tell the stories of filmmaking. We have fifty years of interviews with the best filmmakers, editors, cinematographers in vaults up here. That's going to be going online. Let's hear Orson Wells on what he thought about making *Citizen Kane*. That's the kind of stuff we are going to be providing.

Is there anything else you would like to add?

I think what is important is the idea of access. Digital technology allows more people access to tools to tell stories. I think that we are going to see far less of the same thing. I think Hollywood as an idea place will go away. In other words it won't be at Hollywood. It will be in Iowa that somebody creates the next *Apocalypse Now*, as Francis Ford Coppola said.

We want to share the knowledge of Hollywood, of what we have learned in telling stories, and narrative, and timing. Why should you reinvent it again? Why should you have to learn how to time a piece? We can help teach that. ■

summer with a couple of high-end clones. One model for digital video was shown in March at the BMUG MacFest, while the Radius System 100 is aimed at publishing and prepress.

The System 100 is similar in design to the 8100/110 and will not be cheap—around $12,500—but will bundle together a Thunder IV GX•1600 graphics card, SCSI card, and software. It will ship with 72MB of RAM!

- The most modern hardware design of the announced clones will come from **DayStar Digital**, based in Flowery Branch, GA. The company said it's going to ship Genesis MP, a high-end PowerPC-based Mac clone costing from $5000 to $10,000, in the late summer.

> Unlike the PC market where most of the clone business battles away at the bottom, the Mac clone vendors will offer high-performance models targeted at specific applications, such as digital video, prepress, or 3-D graphics.

Instead of having the usual NuBus slots that were introduced with the Mac II in 1987, the Genesis MP will use a speedy PCI bus, or Peripheral Component Interconnect. This bus has a top speed about three times that of NuBus and is expected to show up in the next generation of Apple Macs due to ship this summer and fall.

The cool thing about Genesis is its support of multiprocessing, or the ability to use more than one chip at a time. DayStar said that this will boost data crunching speeds around 60–80% over single-chip PowerPC machines. As you might expect, this ability won't come cheap, and applications need to be upgraded to support the capability. But they already have some Adobe Photoshop plug-ins that take advantage of the ability.

- **Bandai Co.** is the outfit that inflicts the Mighty Morphin Power Rangers on our children. They will slide in this fall with Power Player, a $500 Mac-based game machine. Unlike the game machines from Sony, Sega, and Nintendo, the Power Player (with the Apple

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(See Multimedia & Beyond for details.)

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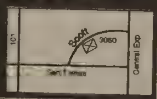

code-name Pippin) will let you easily add a keyboard and modem.

The Pippin will use a 66MHz PowerPC 603 processor and have 6MB of RAM—not too shabby. You can attach it to a TV or a computer monitor. It will boot off of a built-in four-speed CD-ROM player.

The game player will let up to four players use the machine at any one time. But Apple and Bandai think that owners are willing to pay extra for the opportunity to add a keyboard to use an informational data CD-ROM title or even a productivity application. Or perhaps you might want to add a modem and cruise the Internet from your living room while waiting for *Seinfeld*.

The strategy seems to be that computing is so much a part of our lives that we don't necessarily want to be tied down to a single place for computing. Most people have a few radios around the house and even a few televisions. Why not computers? The family that computes together stays together. Or hacks together.

Bytes And Pieces

Here are a few odds and ends that crossed my desktop and middle brain this past month:

• This September marks a watershed for the Macintosh—Apple will reportedly discontinue support for the "technologically obsolete" Lisa and Macintosh XL models. Sigh.

The Lisa was a great machine and a byte maligned in the effort to push the Mac out the door back in 1984. It had a large screen (with rectangular pixels), a hard drive, and a monster $10,000 price tag. But there were many users around that time who didn't want to switch to the smaller screen and performance of the Mac 128K, 512K, or Plus models.

• One of the products that Apple will also discontinue this fall is the Hard Disk 20 drive, introduced way back in 1986. I remember when Reese Jones, one of the founders of BMUG, said at a meeting that 20MB of hard drive was more than enough storage for any and all uses, and anyone needing more was a software pirate. Try looking for a drive with 20, 40, or 80MB today. Hello, doorstop.

The minimum-capacity hard drive that users should buy for a desktop Mac is really a gigabyte, or a thousand megabytes. But big corporate and research servers are currently holding terabytes (a thousand gigabytes), and government agencies are looking for someone to build something that can hold an "attobyte" of data. What is this beast? If you haven't already guessed, it's a thousand terabytes.

I read recently on the Net that an attobyte is exactly 1,125,899,906,842,124 bytes, or more than a quadrillion bytes. It can hold the data held on more than 1.5 million CD-ROMs, or about 7% of all the CD-ROMs that were shipped worldwide in 1994.

Backups might be a problem since it would take a whopping seven hundred million high-density 1.44MB 3.5-inch floppies! Or about the size of the installation set of Microsoft Windows 2010 and Office. If you hooked the attobyte drive to your Mac with a standard SCSI cable, filling the drive would take over six years. If your Mac is running on an Ethernet network, an attobyte's worth of transfer needs about thirty-one years. With a 14.4 modem, an attobyte-sized download off of a bulletin board service requires 17,600 years—not accounting for line noise or call-forwarding interruptions.

- A couple of months ago, I mentioned the problems that Apple was having with conservative groups over Voyager's *Who Built America* CD-ROM that was bundled with educational Mac LC 575 models. Apple was asked to stop distributing the disc that includes discussions of abortion, birth control, and homosexuality.

Based on input from national education groups and Apple's Education Advisory Council, a group of K–12 educators from around the US, it has reportedly decided to continue to bundle the title with the secondary school bundle for grades seven through twelve. It will stop sending the disc with the elementary school package. I bet that this will make no one advocacy group particularly happy, which is the mark of a good decision.

Tip City

- The recently released QuickDraw GX 1.1.1 was itself updated to v1.1.2. It fixes the multiple out-of-memory alerts some users found when printing, occasional crashes on Power Macs when canceling print jobs, and some specific problems with Tektronix and Hewlett-Packard PostScript printers.
- Owners of StyleWriter II inkjet printers can look for a hidden trick (these tricks are also called Easter Eggs, but I don't know if such a religious intent was on the minds of their programmers).

First, unplug the power cable from the StyleWriter II, then reinsert the plug while holding the power button down. Release the button and depress it again until the StyleWriter starts to print. The printer should produce a full-page maze; it creates a new one each time this action is done.

- Are you protected against the latest viruses? In April, a new strain of nVIR turned up that was coded specifically to elude virus checks by Disinfectant 3.5, the popular free antiviral application and extension.

Version 3.6 handles the nVIR clone and also lets you increase Disinfectant's memory settings in the Get Info box to handle programs with really large resources. The latest version of the program is available from the BMUG office on disk for $4 plus shipping and handling, or online from Planet BMUG and other electronic services.

Shareware Spotlite

If you are ever in doubt about any measurement conversions check out MacVerter Metric 2.0.1 from Jumbo Productions. This $15 shareware handles conversions for metric area, volume, weight, temperature, and distance. You type in something in inches and numbers immediately start jumping all over the place. It's all laid out in one big window with fifty fields. Very cool.

It's available on most online services including our own Planet BMUG. ■

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What Is BMUG?

BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684 ext. 8.

The BMUG Office, 2055 Center Street (a half block from the BART station), is open to the public 8:30 am–4:30 pm. Please come by, say hello, and meet other members.

The BMUG Helpline provides volunteer technical assistance and telephonic hand-holding for our members. If your question can't be answered on the spot, we try to get you in touch with someone who can help. Improve your Macintosh education and help others by becoming a Helpline volunteer!

BMUG has one of the most up-to-date, comprehensive software libraries around with hundreds of disks filled with the latest versions of public domain or shareware programs. BMUG also produces CD-ROM collections, including the digital video *TV-ROM ™Too*, and the *BMUG PD-ROM.*

Planet BMUG and BMUG Boston are graphical user interface FirstClass bulletin board systems, offering the latest in shareware, as well as news, private email, rumors, etc. With our 18-line capability, you can have access to BMUG almost 24 hours a day. It's easy to use, fun, and a great resource.

BMUG can be found on most online services, including e•World. BMUG can also be reached through the Internet network at *UG0001@applelink.apple.com*.

To get some further information about BMUG please write to: BMUG, 1442A Walnut Street, #62, Berkeley, CA 94709. If you prefer to phone our business office, call (510)549-BMUG, or fax (510)849-9026.

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AT&T Workstation

intel inside

New Product

Features:
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- On board SVGA capabilities with support for 32,000 colors and from 800x600 to 1280x1024 resolution
- Three 5.25" half height user accessible drive bays and five 3.5" internal bays. Netware 3.12, Netware 4.01, UnixWare Personal Edition 1.1, Application Server 1.1 and SCO MPC certified.

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- SCSO UNIX 3.0
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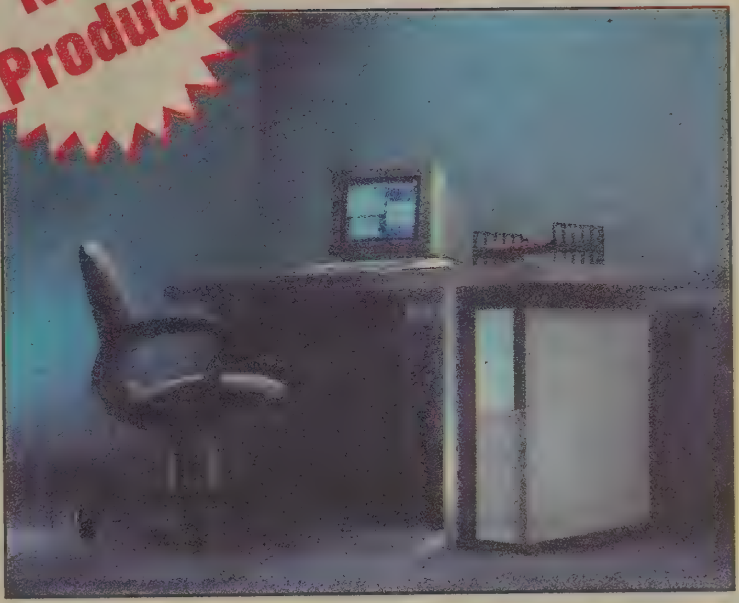

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- 14" 1024x768 .28dp SVGA NI monitor
- 101 Enhanced Keyboard
- Mid Tower with 230W P/S
- MS DOS/Windows/Mouse
- CD-ROM and Soundcard
- 2 Speakers
- Microsoft CD Titles

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Dual Speed CD-ROM
Diamond Sound Card
420MB IDE Drive

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DX4/100	$1499
Pentium 75	$1759
Pentium 100	$1959

Jupiter 4

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Sound Blaster 16 S. Card
540MB IDE Drive

DX2/66	$1549
DX4/100	$1599
Pentium 75	$1859
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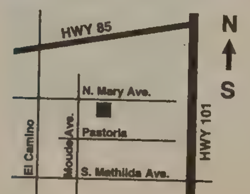

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- Intel 486DX4-75 Processor
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- 256K SRAM Cache
- 1.44MB Teac Floppy Drive
- 540MB IDE Enhanced Hard Drive
- 32 bit VLB IDE Controller
- 2S, 1P, and 1 Game Ports
- 32-bit Cirrus Logic VLB
- 15" 1280x1024 .28dp Green Monitor
- 101 Enhanced Keyboard
- Mid Tower Case with a 230W P/S, 7 Bays
- MS DOS 6.22 and Windows 3.11
- Serial Mouse and Mouse Pad

486DX2/66.......$1399
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Pentium.........CALL!

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intel inside

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1. Save on your electricity bill
2. Reduce air pollution
3. Prolong your system's life

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April 26, 1994
HiQ 4DX66 Green PC System
Excellent DOS Applications

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PC MAGAZINE

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486 PCI Enhanced IDE

HiQ Mercury Station

PC MAGAZINE
Feb 23,1993

A fast 486DX/33 processor combined with a host of quality components drove the HiQ Ultimate 433i to score across a range of PC Lab's performance test, making the unit unusually versatile for the price.

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- 256K SRAM Cache
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- VLB IDE Controller
- 2 Serial, 1 Parallel, GP
- VLB SVGA Video w/ 1MB
- 14" 1024x768 .28dp SVGA Monitor
- 101 Enhanced Keyboard
- Mid Tower w/ 230W PS
- MS DOS 6.22 and Windows 3.11
- Serial Mouse w/ Pad

486DX4/100 . . . . $1089
486DX4/75 . . . . $1399

HiQ Mars Station

- AMD 486 CPU
- 4MB of RAM 70ns
- TEAC 1.44MB 3.5" Floppy Disk Drive
- 540MB Enhanced IDE Hard Drive
- PCI Enhanced IDE Controller Card
- PCI Trident 9440 1MB Video Card
- 15" SVGA Monitor 1280x1024
- Non-Interlaced, .28 DP
- 101 Enhanced Keyboard, Keytronics Pro
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PC WORLD

January 1995

"HiQ Neptune P90. Our test scores show that HiQ's debut a fast Pentium-90 is one of the mightier machines we've tested. We weren't surprised to find lots of expansion"

PC MAGAZINE

Nov/Dec 1994

"HiQ Neptune P90/PCI performed consistently well, with a Graphics WinMark 95 score solidly above-average."

HiQ Neptune Powerstation

- Intel Pentium CPU
- Intel Neptune Motherboard
- 16MB 70ns RAM
- 256K SRAM Cache
- 1.44MB Teac Floppy Drive
- 1GB SCSI Hard Drive
- Adaptec 2940 PCI SCSI Controller
- 2 Serial, 1 Parallel, GP
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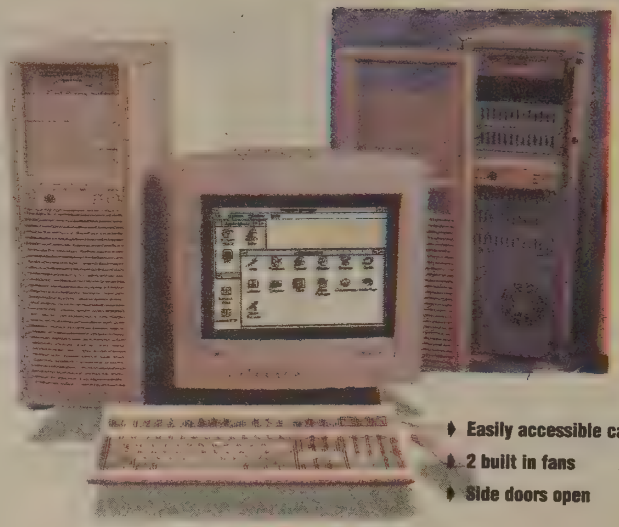
- 15" 1024x768 .28dp SVGA Monitor
- 101 Enhanced Keyboard
- Full Tower w/ 230W PS
- MS DOS 6.22 and Windows 3.11
- HiQ Serial Mouse w/ Pad

Neptune P100	$2759
Neptune P90	$2659
Neptune P75	$2559



- Easily accessible case
- 2 built in fans
- Side doors open

Pentium 120MHz Available

Entry Pentium HiQ Venus Station

- Intel Pentium CPU
- PCI Motherboard
- 8MB 70ns RAM
- 256K SRAM Cache
- 1.44MB Teac Floppy Drive
- 540MB Enhanced IDE Drive
- PCI IDE Controller
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- PCI SVGA Video Card w/ 1MB
- 14" 1024x768 .28dp SVGA Monitor
- 101 Enhanced Keyboard
- Full Tower w/ 230W PS
- MS DOS 6.22 and Windows 3.11
- Serial Mouse w/ Pad

P100	$1789
P90	$1689
P75	$1589

HiQ Uranus Pentium90 Dual Processor

- Dual Pentium 90MHz CPUs
- EISA/PCI Motherboard
- 16MB 70ns RAM
- 256K SRAM Cache
- 1.44MB Teac Floppy Drive
- 2GB Wide SCSI Hard Drive
- Adaptec 2940W PCI Wide SCSI Controller
- 2 Serial, 1 Parallel, GP
- Diamond Stealth 64 w/ 2MB DRAM
- 15" 1024x768 .28dp SVGA Monitor
- 101 Enhanced Keyboard
- Full Tower w/ 230W PS
- MS DOS 6.22 and Windows 3.11
- HiQ Serial Mouse w/ Pad

Price	$4759

HiQ Saturn Station

- Intel Advanced/ZP Motherboard
- INTEL TRITON CHIPSET
- 256K CACHE
- Intel CPU
- 16MB of RAM 70ns
- TEAC 1.44MB 3.5" Floppy Disk Drive
- WD 1.2GB IDE Hard Drive
- PCI IDE Controller, Built-in
- PCI Diamond Stealth 64 w/2MB DRAM
- 15" Hitachi Super VGA Monitor 1024x768 Non-Interlaced .28 DP (3 years warranty)
- 101 Enhanced Keyboard, Keytronics Pro
- Mid Tower Case w/ 230 Power Supply
- (7) Drive Bays- (3) 5.25, (2) 3.5, Internal (2) 3.5
- Microsoft Ergonomic Mouse
- MS DOS 6.22 Installed w/ Manuals
- MS WFW 3.11 Installed w/ Manuals

Pentium 75MHz (INTEL)	$2339
Pentium 90MHz (INTEL)	$2499

INTEL Aladdin Motherboard Available

Pentium Advanced/ZP

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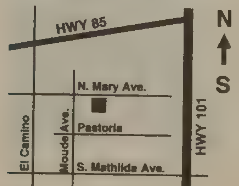

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Features

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- SNMP compliant
- Novell Netware 3.1x, 4.1x and Windows NT Advanced Server Certified
- Five Year Warranty

What is RAID?

RAID stands for Redundant Array if Independent Disks. Simply put, RAID is a storage technology - a subsystem consisting of two or more disk drives working as one. That's misleading, though, because RAID is far more complex. It's a cost effective form of protection that can automatically reconstruct data after a disk crash without forcing you to take your system down. Think of RAID as a sort of miraculous high-tech tire - one that could fix itself even as your car races down the freeway.

How Will RAID Benefit Me?

Reliability

With multiple disk drives, redundant power supplies and fans, the mean time between data loss (MTBDL)) is in excess of 5 million hours. This is crucial when data needs to be available at all times. A drive failure no longer means loss of data or even loss of access to your data.

High Availability

The system is fault tolerant. Menu hardware components, including disk drives, can be replaced while the system remains active, and data remains accessible.

Cost Effectiveness

Using RAID 5, it is possible to provide drive fault-tolerance without doubling the total storage capacity and cost; six 1 GB disk drives provide 5 GB of useable storage. Using mirroring (RAID 1), ten 1 GB disk drives would be required to provide 5 GB of useable storage. The average cost per MB of the Conner CR6-RAID system is no more than mirroring or duplexing and provides fault tolerance.

Flexibility

Most RAID systems have the capability to add capacity by either upgrading the disk drives or by adding modules to the RAID system. Selectable RAID levels also offer different combinations of fault tolerance, capacity and performance. Multiple bus and operating compatibility is offered as well as options for hardware or software RAID implementations.

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RAID offers an easy way to add hard disk drives to the network. Multiple low capacity disks can be accessed as one large volume.

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For the latest **CD-ROM** and software news & reviews, see our **Product Spotlight** section starting on **page 212**

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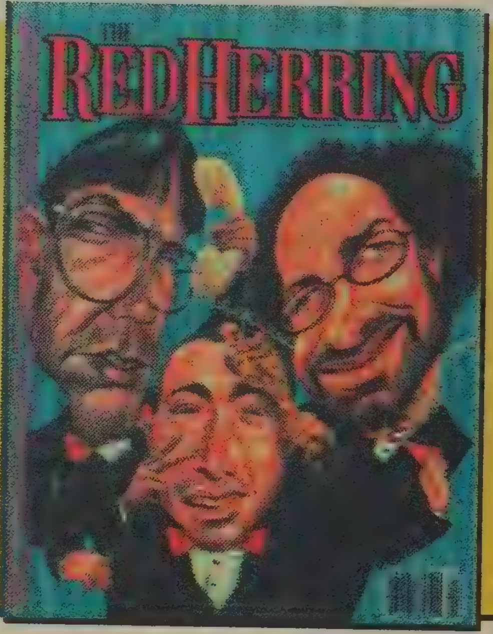
- Character Building With Animation Master 300

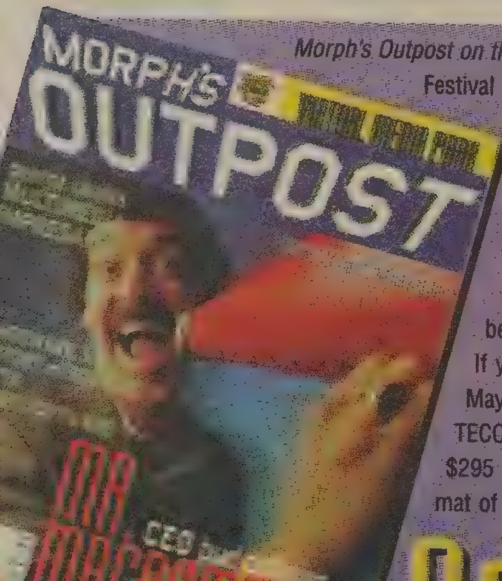
Gulch GOSSIP

by Jonathan E.

Happy Birthday, Red

Red Herring celebrates its second birthday on June 22 with a party in its new office building, the Olde Hamm's Brewery, at 1550 Bryant, Suite 950. My mischievous mind is attempting to calculate what's going to happen when a group of all-day, freely-beered-up developers cross town from Art Teco to encounter the venture capitalists. But what if the venturists have already discovered the huge cache of Hamm's rumoured to be hidden there? What if both groups celebrate the solstice in truly pagan fashion? Will there be human sacrifice? Will terabyte servers be thrown from hotel windows around town later that night? This could be an evening that will become legend when multimedia's history is finally exposed.





Art Teco II

Morph's Outpost on the Digital Frontier presents Art Teco II, the Second Annual Developer's Festival and Conference, on June 22, 23, and 24 at Fort Mason. If you were there last year, you'll know what a fun and different gathering of developers it is, quite a change from the usual trade-show drudgery; if not, the format of direct audience-panel interaction without any silly presentations really does allow for a more enjoyable form of communication.

Then think free beer, which can mean that the conversation becomes remarkably candid and possibly more lucid—or perhaps less. If you need any further convincing, the registration goes up $200 after May 30 to $495, so run to your phone immediately and call 1-800-5-ART-TECO or fax (510)601-9074 to register. You'll get a staggering deal of only $295 for all three days. Incidentally, having recently perused the new format of the magazine, I find *Morph's* a pretty essential read for anyone who wants to know what's going on in this business.

Now We Know Why Software Costs So Much

mFactory threw an extremely extravagant party at the San Francisco Museum of Modern Art to launch its new authoring tool, mTropolis. Large martinis and Cape Cods were served to the assembled multitudes who lapped it all up amidst the architectural splendour—it became quite a mob scene.

Mike Backes, Hollywood screenwriter and a founder of Rocket Science (perhaps not something to currently boast about too loudly), was an extremely self-assured and amusing presenter, while **Jim Ludtke** and **Thomas Dolby** demonstrated things they could do with mTropolis, but seemed to admit that they weren't quite ready to use it for their current projects.

There's no way I'm going to give you a serious assessment of a $4995 piece of software in this space other than to say that it looked reasonably impressive, obviously allowing you to do some interesting things relatively easily, and addresses at least some of the problems developers face. There's a free sampler CD-ROM available from mFactory, 1440 Chapin Avenue, #200, Burlingame, CA 94010-9583; (415)548-0600; email *info@mfactory.com* . mFactory would like to know such things as the platform you work on, what you develop, how many people work for you, and what tools you currently use.

Thomas Dolby drew a big cheer when he announced that he was likely to move to the Bay Area and open a branch of Headspace here. I've since heard that he has indeed become a resident of the Half Moon Bay area.

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- Enhanced PCI HD Controller w/High Speed I/O
- 2MB **Diamond Stealth 64** PCI Graphic Card
- Medium Tower Case with 2 Cooling Fans
- 101 Keyboard (Keytronic or Focus 2001 Click)
- MicroSoft Mouse or Logitech Mouseman
- 17" Impression 7 1280x1024 .28 MPR-2 Green Monitor
- 7 Year Labor Warranty, 1 Year Parts Warranty

100MHz $2769
90MHz $2659
75MHz $2559

ASUS Pentium PCI/ISA Intel Triton Chipset 256K, 8MB, 850HB 15" Viewsonic 15G

- ASUS PCI Motherboard
- **256K** Ext. Cache & CPU Cooling Fan
- **8MB** RAM (Max 128MB)
- 1.2 MB & 1.44 MB Floppy Drive
- **850MB Conner** Hard Drive
- Enhanced PCI HD Controller w/High Speed IO
- 1MB S3-864 PCI Graphic Card
- Medium Tower Case with 2 Cooling Fans
- 101 Keyboard (Keytronic or Focus 2001 Click)
- MicroSoft Mouse or Logitech Mouseman
- 15" Viewsonic 15G 1024x768 .28 MPR-2, digital, Green Monitor
- 7 Year Labor Warranty, 1 Year Parts Warranty

100MHz $2109
90MHz $1999
75MHz $1899

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Compton's Interactive Encyclopedia
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PS CD Title $9.95

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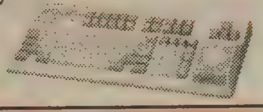

Microstar PCI Local Bus 256K, 8MB, 850MB, SVGA NI

- **Microstar** PCI Motherboard
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- 1MB S3-864 **64 Bit** PCI Graphics Card
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- MicroSoft Mouse or Logitech Mouseman
- 14" Proton 1024x768, .28 SVGA Non-Int Full Screen Monitor w/72Hz Refresh Rate
- CPU Cooling Fan
- 7 Year Labor Warranty, 1 Year Parts Warranty

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Intel 486DX2-66 MHz $1369
AMD 486DX4-100 MHz $1369
AMD 486DX2-66 MHz $1329

486 VESA 128K 4MB, 540MB, SVGA NI

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- Mini Tower or Desktop Case w/ Power Supply
- 101 Mitsumi Enhanced Keyboard
- Logitech Dexxa Mouse
- 14" Proton 1024x768 .28 SVGA Non-Int Full Screen Monitor w/72Hz refresh rate
- CPU Cooling Fan
- 7 Year Labor Warranty, 1 Year Parts Warranty

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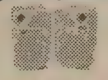

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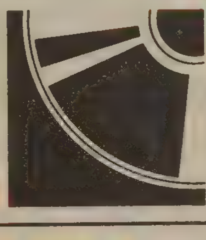

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14,400 Fax modem (ext.)	79
28,800 Modem/14,400 Fax w/V.34	139
28,800 Modem/14,400 Fax w/V.34, ext	175

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Full Tower w/300W	119
Desktop Case w/230W	48
230W PS	29
300W PS	69
Power Center w/Green Function Control	45
IDE HD Removable Kit	35

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Logitech Mouseman (PS2)	55
Logitech Trackman Combo	69
Logitech Dexxa Serial	15
Microsoft Ergonomic Serial	29
Big Ball Trackball	25

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DOS 6.22/Window 3.11	$40/49
DOS 6.22 & WFWG 3.11	99

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1MB Trident	$62
1MB Trident VLB Windows Accelerator	80
1MB S3-864 PCI 64 Bit	109

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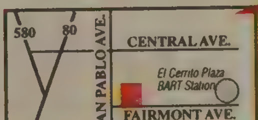

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GULCH GOSSIP *continued...*

ZIFF SPLITS

Fred Davis gleefully announces that he's "jumped ship" from the Ziff-Davis empire to a new position as director of editorial development with arch-rivals CMP Publications Inc. Seems as though Ziff yanked Fred's chain one too many times over working with outsiders while the Ziffies stumble around dumbing their products down. This time it was over Fred's work with C/Net.

Supposedly, Ziff plans to relaunch its TV project, which would theoretically be in competition with C/Net, and wanted to keep Fred to itself. But Fred had recently completed his first on-air segment, was real pleased (or at least amused) with the new haircut and clothes provided by C/Net, was fed up with Ziff's lame-brain style—as he said, "I'm concerned with Fred Davis, not Ziff-Davis"—and decided to remove "the golden handcuffs."

Linda Jacobson has also quit her editorial position at *Computer Life* to return to free-lancing, although she also will be working with C/Net. She'll also continue her work as president of VeRGe, which has recently formally renamed itself to become the Virtual Reality Education Foundation Inc. and become a fully fledged 501(c) non-profit organization.

MINDSCAPE ALL OVER THE LANDSCAPE

Peter Rabbit is about to become ROM mates with Doonesbury! This unlikely pairing comes about because Mindscape, Inc., in a recent flurry of announcements, has forthcoming product from both nice old **Beatrix Potter** and acerbic contemporary **Garry Trudeau,** along with new titles *Wonder Land*, *How Your Body Works*, and *Secrets of the Pyramids*. With this lineup, it seems as though Mindscape is determined to take you from the cradle to the grave.

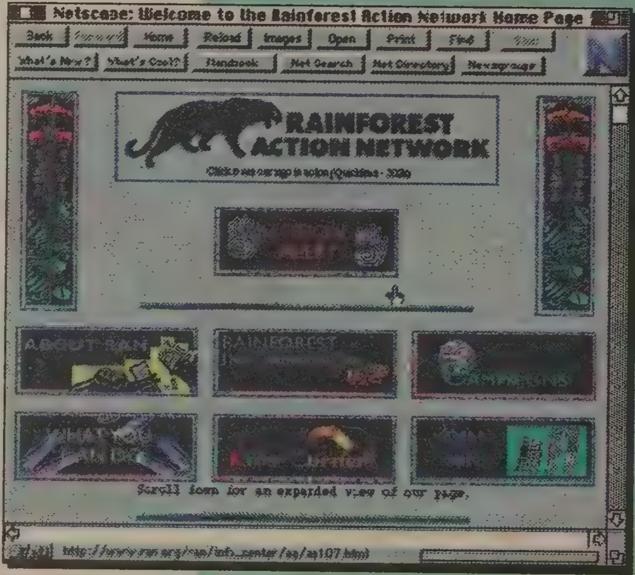
Peter Rabbit didn't have much to say, preferring to munch on a carrot, but Garry Trudeau in a typical tweak-the-nose-of-the-mighty comment said, "Microsoft was my first choice, but then I heard about Mindscape, which had a cooler name, and the people seemed smarter. So I went with them." He's a troublemaker—and no doubt **Mr. Bill** will deal with him once he's finished sorting out the federal government.

GOSSIP IS PHILOSOPHY

Fresh from his appearance on the cover of *Wired*—and check that interview out, **Kevin Kelly** did a great job—**Brian Eno** was rumoured to be holed up at ION with **Ty Roberts** for a few days. And, if that rumour was true, it was also true that a number of folks around town were disappointed, if not downright pissed off, that their paths did not intersect with the Brian one's.

And, in almost unrelated news, ION has now released

27,000 And Counting


Netscape: Welcome to the Rainforest Action Network Home Page
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Forward
Home
Reload
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Net Directory
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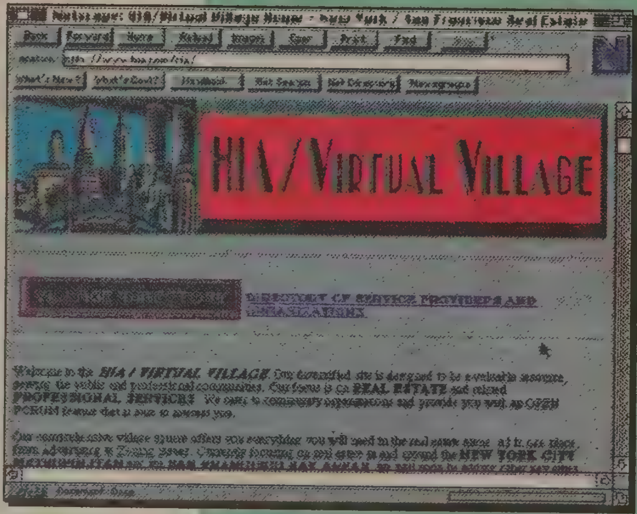
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What's Cool?
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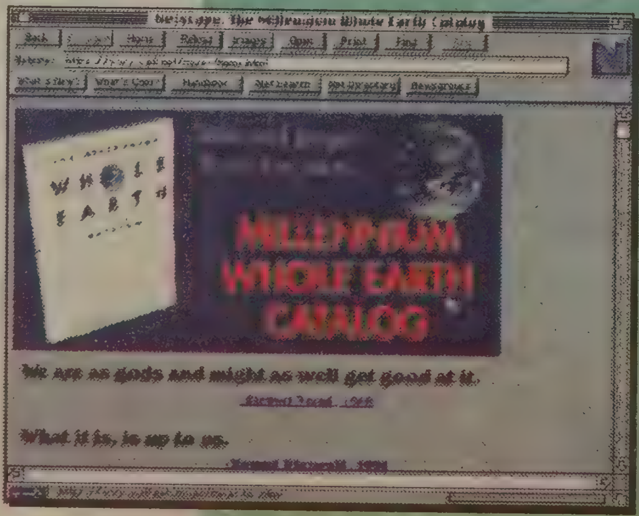
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What's Cool?
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We are as gods and might as well get good at it.

What it is, is up to us.

Allan Hunt-Badiner wants "to share my excitement about a very cool site—the action page of the Rainforest Action Network, *http://www.ran.org/ran/* . Off-the-page faxing of editable form letters to campaign targets, global activist email networking, visitor-created links, compressed but rich audio sampling of inspiring talks, and indigenous inspired designs are some of the features of this highly interactive and stylin' web site."

Center for the Arts at Yerba Buena Gardens claims to be "the first San Francisco arts organization to have its own site on the Internet's World Wide Web." It'll have news of upcoming events, performances, and exhibitions and was created by HIA/Virtual Village. To visit Center for the Arts' site, go to *http://www.hia.com/hia/yerbabuena* . HIA/Virtual Village are at *http://www.hia.com/hia* .

Fulfilling a long-held dream of **Matisse Enzer**, Internet Literacy Consultants has created a Web site for the *Whole Earth Review* magazine and the *Millennium Whole Earth Catalog*, published on paper by Harper San Francisco in 1994. While only excerpts from the magazine and *Catalog* are available online, there are links to the entire text of books, such as editor Howard Rheingold's *The Virtual Community* and William Calvin's *Ascent of Mind. The Millennium Whole Earth Catalog* Web site can be found at: *http://www.well.net/mwec/* .

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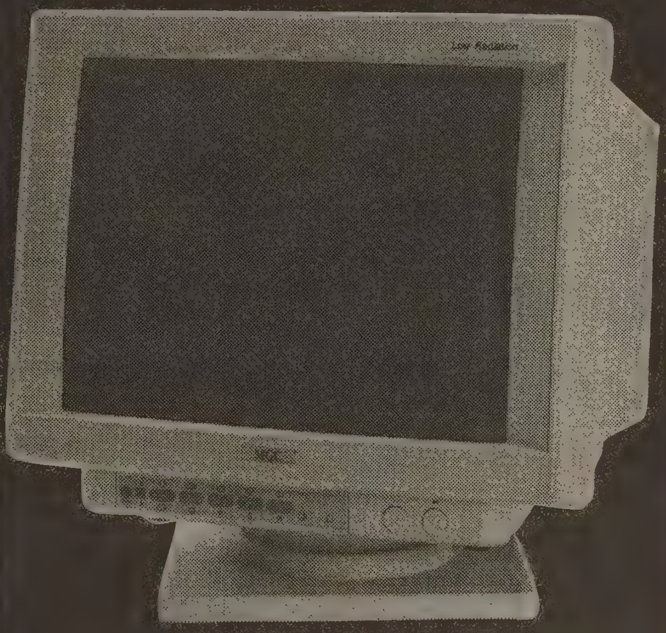

MGC-1765VAF 17"

dot pitch	resolution	vertical sync.	horizontal sync.
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GULCH GOSSIP *continued...*

The Resident's Gingerbread Man for Windows machines. Mr. Bill is happy about that and won't be dealing with them like he's going to deal with Garry Trudeau—besides even Mr. Bill doesn't know who The Residents are.

MULTIMEDIA STUDIES

Randall Packer is the new director of the Multimedia Studies Program at San Francisco University College of Extended Learning. Randall was the first faculty member hired by **Robert Bell**, the founding director, back in the summer of 1992. Sadly, Robert Bell has been forced to retire due to cancer.

Randall's plans include strengthening the links between the community at large and the Multimedia Studies Program. Hopefully, there'll eventually be a visiting lecturer series that would be open to the public and, in the meantime, there should be displays of student art. Randall's focus is strongly oriented towards the artistic end of the spectrum and he's very interested in creating "an atelier-like atmosphere that will foster students' abilities to communicate aesthetically." His background of multimedia theatrical and concert productions through Zakros InterArts should stand him in good stead.

Zakros will now be headed by **Belén Garcia-Alvarado**. The next Zakros production is **Michael Peppe's** *Crab*, "an Orphic sightseeing tour of America's cultural, social, and political unconscious" copiously illustrated with a wildly eclectic musical soundtrack. *Crab* runs Thursdays through Sundays, June 22 through July 2, at the Climate Theater; further info from (415)978-2345.

No Way To Treat A Journalist

Most of the Live Oak Multimedia crew are sailing around the Mediterranean researching a title similar to the *Four Paws of Crab* mix of Thai cookery and culture. **Mark Francis**, marketing manager, left behind in Emeryville, refused to reveal which country was going to be the subject of the new title, saying that if he told me he'd then have to kill me. Myself, I'm not sure they really know yet which country it is but are instead eating a lot and enjoying a fun cruise that will be entirely tax-deductible.

PSSST! WANNA SEE A BODYSYNTH?

Ed Severinghaus sends word that BodySynth Demo videotapes are now available. The tape includes performances by the **CyberBeat Brothers**, **Brother Chris Van Raalte** solo, **Pamela Z**, **Wayne Doba** (tap sensors), and a short clip from Robofest5. Send a check or money order for $10, which includes shipping and sales tax, to Ed Severinghaus, 142 20th Ave., #2, San Francisco, CA 94121.

NETNOIR GETS INCUBATED

The untold story (because I didn't know it, not because I was sworn to secrecy) from the item on NetNoir in April's Gulch Gossip column is that NetNoir is part of AOL's Greenhouse Project, an

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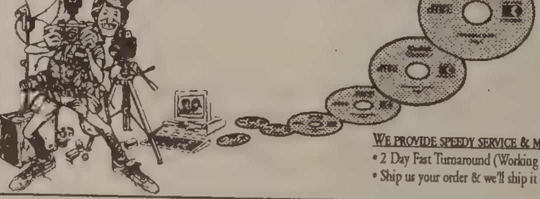

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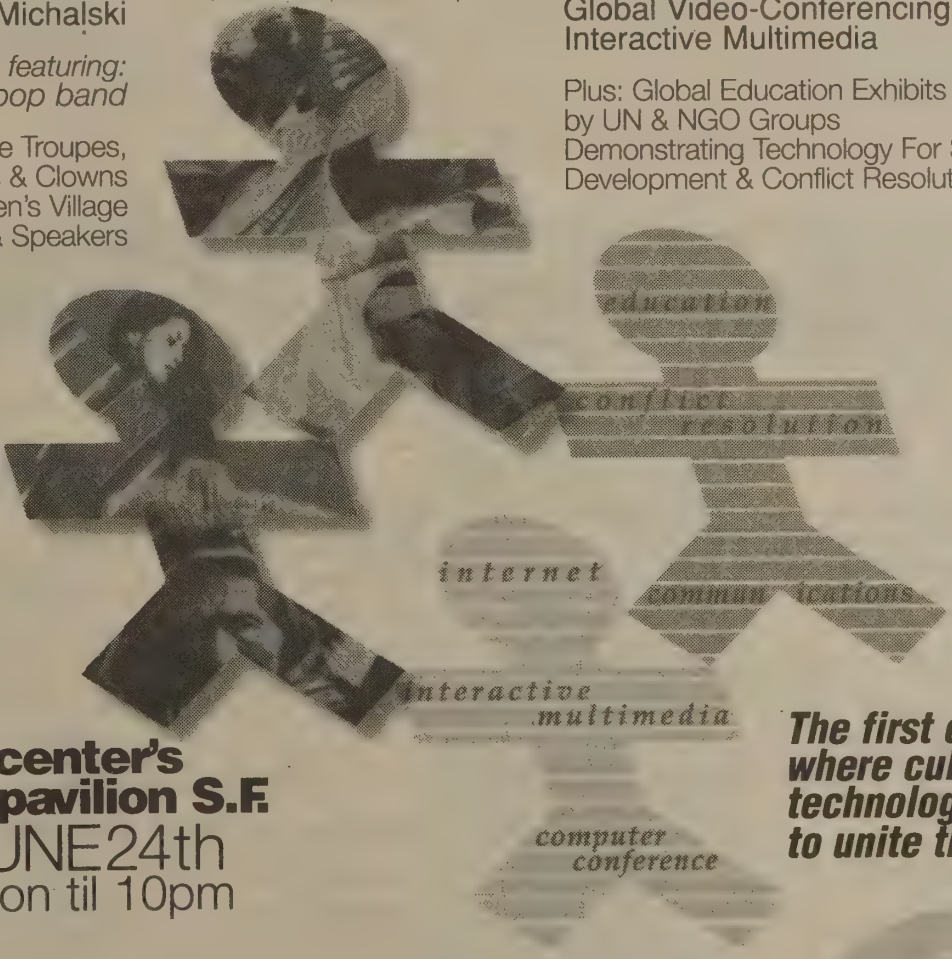

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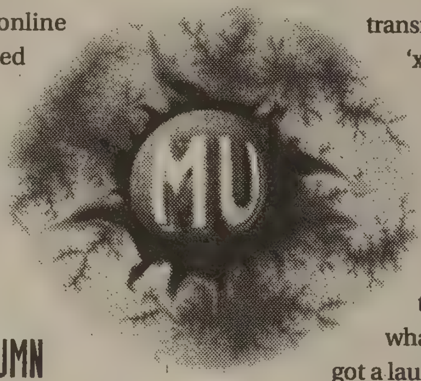
GULCH GOSSIP *continued...*

incubation scheme for new online services. Out of fifteen hundred applications to the Project, four were chosen. By the time you read this, NetNoir should be available on AOL, as the current launch date is now May 22.



AND WHAT'S A GOSSIP COLUMN WITHOUT A LITTLE SEX

I was getting online press releases from my longtime cohort at *BAM* and the *Whole Earth Review*, **Lorry Fleming**, which referred to the Music Universex area of eWorld.

Now, sure, we've all heard the immortal phrase "sex and drugs and rock 'n' roll," but this just didn't seem quite right. So I asked her if Music Universe had changed its name or had expanded its services (that might be a smart marketing move after all). Turns out that "the eWorld mailer transforms any high-ASCII codes to an 'x'—therefore, whenever I typed the trademark (™) key, it looked just great on my end. But the emailer turned the (™) into an x everywhere I typed it. Eeek."

I've always hated all those little "TM"s and "R"s in circles that graphically litter too much of what I read these days—but, finally, I got a laugh out of the lawyers' paranoia.

CYBERSTROIKA LEAPS JOYFULLY FROM THE CLOSET!

This came from behind after almost the last minute of our deadline but I had to pass it on for those interested in cruising the so-far semi-secret world of gay multimedia. For once, I have no time to do more than duplicate selected parts of the press release—no witty little jokes in this one, it's almost just as it came to me. (Oooh! I just can't stop, can I?)

"This June, the **San Francisco International Lesbian and Gay Film Festival** [with one of those silly little 'R's in a circle as discussed in our Music Universex item, this world is just too strange and coincidental to believe sometimes] makes a break with its 19 year history to present **CYBERSTROIKA**, a 3-day 'unconventional convention' celebrating queer pioneering in the digital/multimedia age, June 15–17, at Southern Exposure at Project Artaud. Co-presented by **Please Louise Productions, Museo Contempo, Frameline,** and **Southern Exposure**, CYBERSTROIKA features the work of more than 40 local and international artists who employ new media technologies as the instruments of their frenzied meditations on 'alternative realities' and futures-just-within reach. [Honest, I'm not making this up. This is really how many press releases read. Lucky you that us journalists usually filter them.] Inspired by the visionary World's Fairs of the early 20th century, CYBER-

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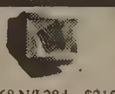

CT1428C 14" Green, 1024x768 N/I 28d	$215
CT1511 15" 1280x1024 Flat Screen, .28d	$290
CT1507 15" 1280x1024 Green, Digital Ct.	$340
CT1712 17" 1280x1024 Flat Screen, .28d	$585
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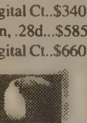

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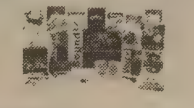

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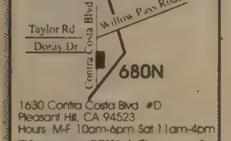

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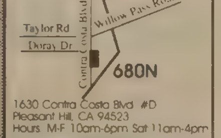

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GULCH GOSSIP *continued...*

STROIKA explores the possibilities for a more equitable, liberating, and stimulating future. Among the highlights of CYBERSTROIKA include [and faithful readers will know that I'd never let a phrase like that pass my screen] digital video work by pioneering lesbian filmmaker **Barbara Hammer**; an interactive computerized pinball machine [Buzzword Alert: What good is a pinball machine if it isn't interactive?] by noted sculptor **Michael Brown**; an entrance kiosk entitled The Safer Sex Visitor Center [I think "entrance kiosk" might be a pun] that is sponsored by **Q Action**, **The Young Men's Program of STOP AIDS Project**, and features interactive safe sex multimedia including the Brothers' Network Interactive Safe Sex Game [I've seen this, it's graphic but seemed to be on the right track]; an anthology of five years of freestyle Amiga-based video by the (in)famous Museo Contempo; the headline-grabbing **Total Entertainment Network** created by **Optigon Interactive**; an altar of interactive multimedia by **Artists Digital Access** mastermind **Rex Bruce**; the world premiere of "Christ" [funny, I thought he was around about two thousand years ago] by **Jon Bush** [aka God, no doubt]; and an exploration of cyber sex by gender bender **Texas Tomboy**."

Okay, so I couldn't resist a quip here and there, but doesn't this sound like a fun change from the run-of-the-mill industry confab? There are two more pages of the press release describing the artists in detail that I'm going to keep to myself, so just take my word that the answer is "yes." But I suspect that it'll be as much of a party as any multimedia gathering. It's all happening between 7:30 pm and 10:30 pm, June 15 through 17, at Southern Exposure, 401 Alabama Street (the corner of Project Artaud) in the great liberal city of San Francisco. Nope, they don't do things like this in most of the country. Tickets are $7 and further info may be had from Please Louise at (415)864-5453. ■

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Last-Minute Note

At absolutely the very last minute, word came in of the annual benefit for **Computers and You**, perhaps the most worthy cause around in doing something on a local level to narrow the divide between the info haves and have-nots. This year, it's on Saturday, June 3 from 6 pm to midnight at Glide Memorial Church, 330 Ellis Street at the corner of Taylor in San Francisco.

The theme is "Global Village Reunion." **D'Cückoo** headlines the live entertainment supported by **The Mod Squad**, **Fat Chance Belly Dance**, and the **Glide Ensemble**. The irrepressible **Wavy Gravy** emcees. In addition, there'll be up-to-the-minute multimedia demos from an alliance of **United Digital Artists**, the multimedia group of the Mayor's office, and ***New Media*** magazine, as well as a multimedia gallery of Computers and You's student work. Another attraction is a silent auction of digital artwork by **Stephen Johnson**, **Bart Nagel**, **Kai Krause**, and **Graham Nash**. Tickets are $65 from (415)445-2169 or via email to *cnyinfo@glide.org*.

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- 2 Slots ISA Available (Total 10)
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- Mini-tower Case
- 101 Keyboard & mouse
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- *MS Works 3.0, MS Money 3.0*
- *Compton's Encyclopedia 1995*
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- Mini-tower Case
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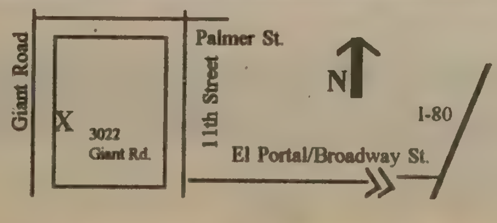

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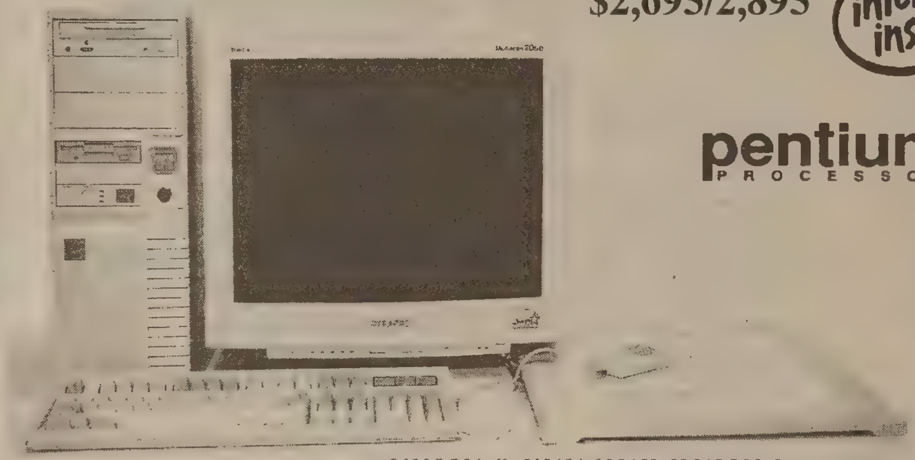

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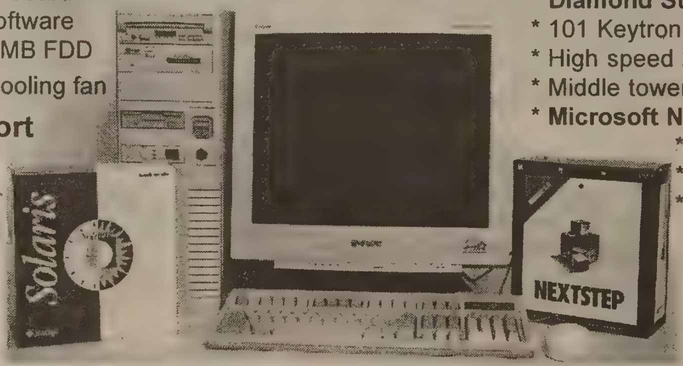

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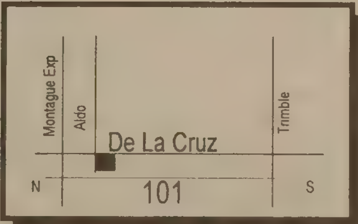

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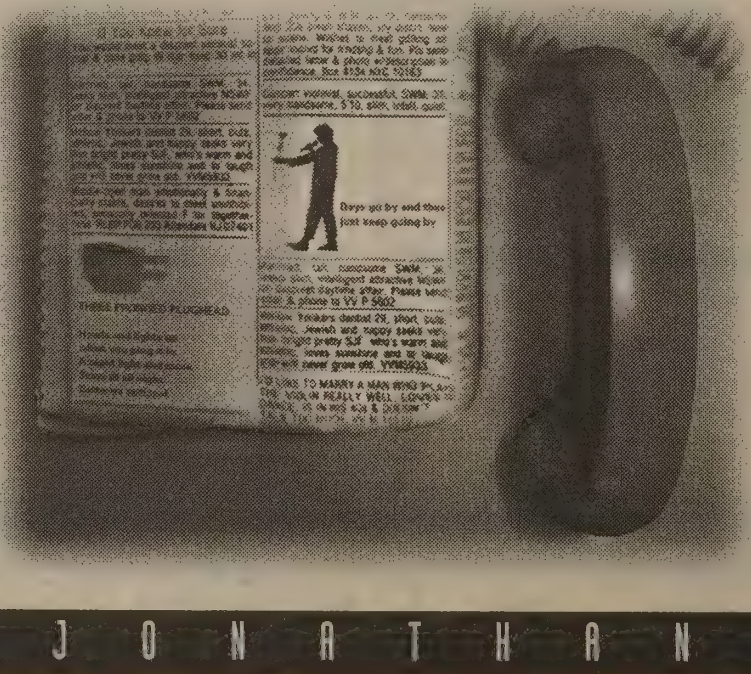
PUPPET MOTEL

Laurie Anderson has been considered a multimedia artist for well over a decade, but to this date the multimedianess of her art has been more that she's worked in multiple media than that she has produced digital, interactive CD-ROMs.



Now, Voyager has released her first CD-ROM, *Puppet Motel*. With that title, you might fearfully anticipate that Anderson has strung together a ghastly series of rendered rooms in a sleazy virtual motel complete with Pinocchio-like characters, nothing more than a faked 3-D environment to mouse around in, where clicking on video screens to make 'em start passes for interactivity and a smorgasbord of the artist's past work along with a canned interview is billed as "meeting the artist."

Thankfully, it's not so. Anderson lives up to her reputation of being at least interesting and, along with her collaborator, designer/programmer Hsin-Chien Huang, has created something considerably more ambitious and imaginative. *Puppet Motel* is, in fact, good for much more than a one-night stand.

The accompanying printed guide actually does refer to the "thirty-three rooms" that await exploration, but mostly these are rooms only in the loosest metaphorical sense. A few have conventional roomlike qualities—one even approximates a motel room—but, for the most part, environment, space, or perhaps virtual installation would be more accurate descriptions. Some "rooms" dispense with the spatial metaphor entirely and are merely screens awaiting your arrival. Once there, it's up to you to figure out what to do—with a scheme like this, a standard interface is simply besides the point, something you'll learn as soon as you're presented with different circumstances in the same space on different visits.

Anderson's overall scheme is to attempt to produce a variety of experiences in that gray area where storytelling meets interactivity. Generally, she succeeds in ways that are impressively creative and original—this is not one of those CD-ROMs where the medium is tedium. There are lots of things to do with your mouse, even with your keyboard, microphone, or modem, yet at other times Anderson takes control to tell one of her stories (although there's

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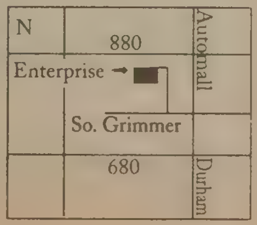


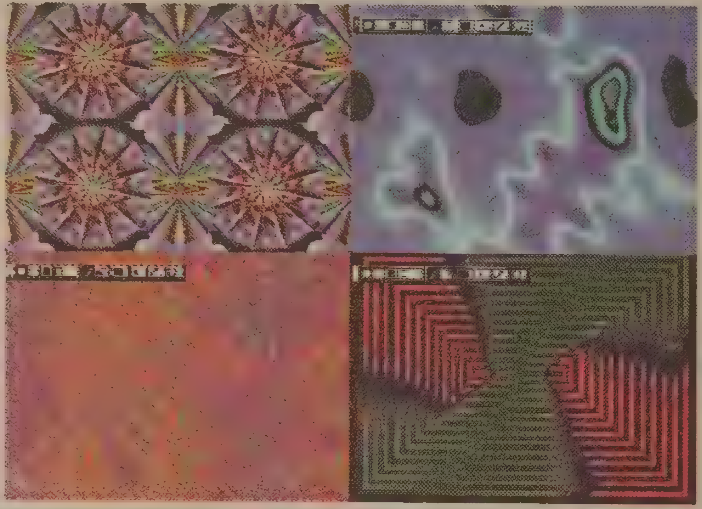
usually a way to stop her if you can figure it out). If you're familiar with Anderson's storytelling abilities, you'll know that the stories are worth hearing; if not familiar, one test of this CD-ROM and Anderson's art will be whether you can restrain yourself from clicking away and can give her the time to tell the tales she has to tell.

And time is one of the central themes of *Puppet Motel.* One of the central areas is "the hall of time" where two clockfaces rotate, one the mirror image of the other, as monotonous voices (probably Anderson's with some treatment) repeat the time over and over again like a demented talking clock. A series of icons appears one-by-one on the left wall of this rather claustrophobic, almost sewer-like cavern, while on the right wall there's a tiny window with the curtains blowing. This is also an active area but all it seems to do is stop and start a waterwheel-like parade of related but smaller icons in the middle of the screen, some of which turn red on occasion, but which are not active.

This tiny window may also make time run faster and slower but, frankly, the general lack of symmetry, along with the strange moving texture of the left wall and the peculiar sounds, so rapidly produced such a strong off-kilter effect that I no longer trusted my perceptions.

This sense of disorientation was repeated in other areas of my explorations. Combine that with Anderson's frequent use of high tech in her works, along with the icons used and the puzzles posed here, and it'd be a fair guess that *Puppet Motel* is an exploration of the mixed effects scientific and technological advances have on our society. I believe that she's ambivalent about these advances, but there are clues scattered about *Puppet Motel* that Anderson is ultimately an optimist. The best indication of this is her story of when she interviewed John Cage, the father of multimedia according to some, and he eventually replied that he believed that things are getting better. This anecdote, or references to it, emerges in several places in *Puppet Motel.*

While *Puppet Motel* might be good for more than a one-night stand, little of it is a genuinely pleasant experience. It has a dreamlike feeling, far from a nightmare but also far from soothing. Fundamentally, it displays a disconcerting quality.



Kirei!-induced psychedelic swirls

This ability to juggle a range of reactions and provoke thought makes *Puppet Motel* an extremely successful expression of Anderson's meditations on modern life (assuming that I've interpreted her correctly).

Technically and from a design point of view, *Puppet Motel* is also impressive, although almost certainly not mainstream or pretty enough to appeal to the tastes of many. However, for those interested in an example of what a relatively uninhibited artist can do with this new medium, *Puppet Motel* is an essential lookseehear.

ROCK 'N' ROLL YOUR OWN

Rock 'n' Roll Your Own is the new generation of the acclaimed interactive-music CD-ROM, *Rock, Rap 'n' Roll.* Functionally, it's much the same, but artistically *Rock 'n' Roll Your Own* is considerably more song-based and less generic than its forerunner. However, I still felt that the songs were a little on the generic side—maybe I'm just old and jaded, but musically there was little that made me sit up and take notice of a new sound; it was as though I'd heard all the pieces before.

This is not to say that the music isn't good in its various genres; it is certainly well crafted and produced, but just doesn't push the musical envelope. No real matter under the circumstances, because the point of *Rock 'n' Roll Your Own* is to let you, the user, have fun manipulating the sounds rather than sitting passively soaking up the cultural wisdom of some musical genius. And, in that, *Rock 'n' Roll Your Own* succeeds.

There are eight musical "studios" on the disc, each one basically corresponding to a song, in styles ranging from screaming stadium rock through west African, to a remake of "Werewolves of London" with added rap and reggae elements, to several contemporary rap, funk, acid jazz, dancehall, Sugarhill, and War influenced numbers. Something for everyone.

Well, almost. Obviously classical music is not suited for this treatment and, as is becoming apparent, neither is standard rock, whether of the old variety or newer styles. This is because, in essence, what you're doing is remixing the song; rock doesn't have a remixing tradition and isn't really constructed for that treatment, while more groove-oriented music has that tradition and is better designed for multiple treatments.

I'm convinced that the type of egos you'll encounter in the different musical styles also help to explain this phenomenon. Rockers are considerably more solo oriented, looking for rock god status and performing in situations where all eyes are on them, while dance music artists are more collaborative, in the sense that they are not so intent on elevating themselves above the audience; they frequently work in semi-anonymity, seeking instead to evoke a more egalitarian sense of community. Somewhat ironic really, since it's technically more feasible to make dance music single-handedly than it is to make rock single-handedly.

The music of *Rock 'n' Roll Your Own* was created by real San Francisco musicians working for Interactive Audio, a south of Market audio production company. They are, in fact, credited on the disc but essentially it's a rather faceless release. Several are actually reasonably well known in at least some San Francisco circles but, besides Warren Zevon, none have a real national profile. Further down the road of marketing interactive music products, this may become an issue because, at a mass-market level, the truth is that people buy music not only because of how it sounds but also because of the sense of cultural identity provided by the brand names. Sorry, I meant the band names.

Each "studio" works the same way, although each has its own graphic identity, some of which are considerably more successful and

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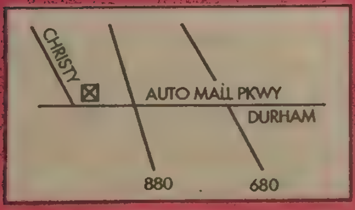

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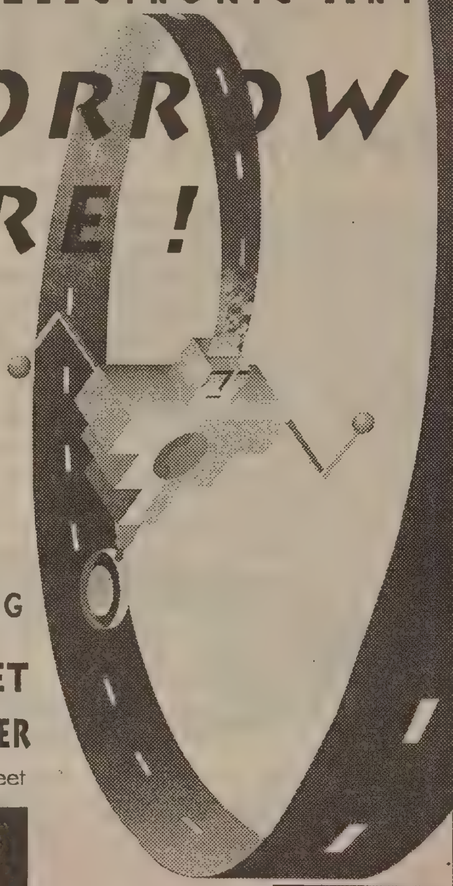

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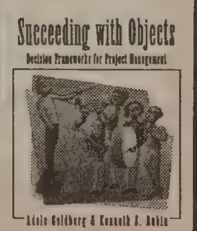

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MULTIMEDIA 101 *continued...*

reflective of the musical style than others. Down the left side of the screen is a column of ten loops. Click on the name and you'll hear it; or drag the numbered icon down to the Song-A-Lizer, which runs horizontally across the bottom of the screen. Drag as many as you want in any sequence, and you can then play them by clicking the control at the bottom of the screen. As each plays, it's highlighted and the whole sequence will loop endlessly. The transitions between loops are very smooth.

In the upper right of your screen is the Vibe-A-Tron, which allows you to trigger and manipulate sounds with your mouse, and below that is the Voc-A-Lizer, two columns of four squares that, when clicked, trigger short vocal phrases. The top two rows of your keyboard each play a sound at varying pitches, while each key in the bottom two rows triggers a different sound. Through menus, you can assign any sounds you wish to the number and QWERTY rows of your keyboard and to the Vibe-A-Tron.

A randomly displayed video runs in the middle of your screen; hitting the space bar cuts to another shot. Of course, both the randomness and the cutting mean that the video is basically nonlinear and doesn't tell much of a story in any sort of coordination with the music. There are also controls for volume, to turn the video off, to stop and clear the Song-A-Lizer, to record yourself, and to import your own sounds.

All of this works very well together once you've got the hang of it, which doesn't take long. Unlike some interactive music products, this one lets you make a mess with an ugly noise; but that's a good rather than a bad thing, because how else are you going to learn anything?

Basically, it comes down to arranging the loops in the Song-A-Lizer in a decent sequence and not banging too many keys or clicking the mouse too much during the busy bits. To initially help figure out some decent sequences, you can load provided sample sessions in through the recording function. Gary Levenberg, producer at Interactive Audio, explains the goal of *Rock 'n' Roll Your Own* as being "easy to use, hard to master" and I think that goal was met, although the marketing claim that it lets you "jam along like a pro" is only true if you consider the widest definitions of the word "like."

And therein ultimately lies my reluctance to jump up and down and proclaim *Rock 'n' Roll Your Own* to be the greatest musical product ever. I just couldn't believe that I was actually creating anything. Sure, things sounded great (or not, as the case may be) and I knew I was controlling the pasting

continued on page 340

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Puppet Motel, $39.95
(Macintosh only)
Voyager
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Rock 'n' Roll Your Own, $39.95
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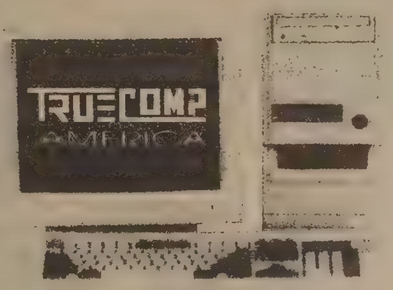

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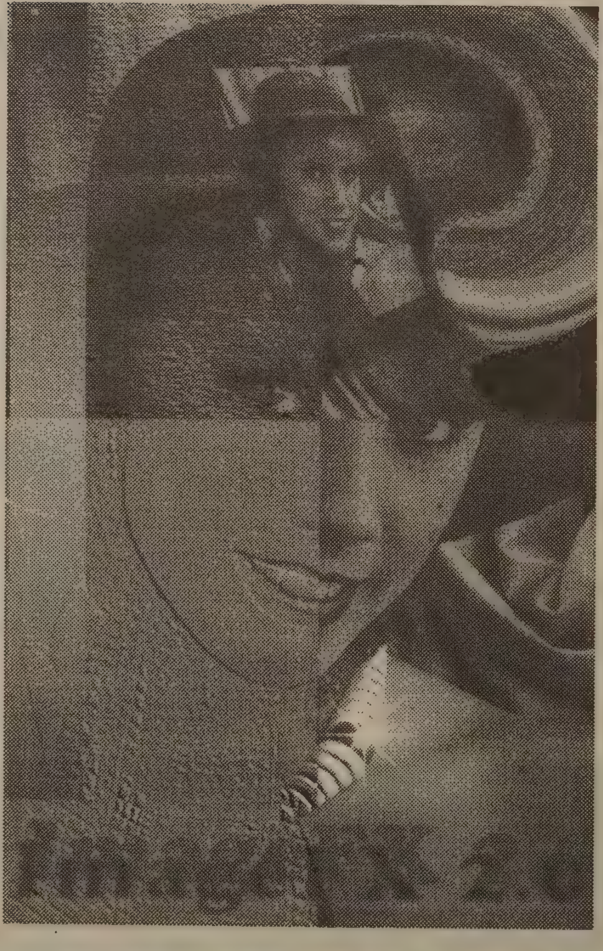
Too Cool: ImageFX 2.0

Amazing Images For The Amiga

Wow! Nova Design's ImageFX 2.0 is so chock full of exciting features, it is going to be hard to cover even the best of the lot—but I'll try.

First off, ImageFX now supports the Retina 16/24-bit "deep mode"—it's high time an Amiga image processing program supported this type of power with a graphics card that is readily available, solid, and still being supported and developed. You'll never go back to an AGA or composite video display once you've tasted painting and applying effects in full 24-bit RGB glory.

If you already own a different 24-bit card, fear not. Nova Design is working on providing 24-bit preview capability for other graphics boards by supporting the "cybergraphics system," a new third-party retargetable graphics standard. Currently there are cybergraphics software drivers for Domino, PicassoII, GVP Spectrum, Piccolo Z2/3, and RetinaZ3. (It sure would be nice if this RTG standard caught on.)



Demonstration of some of ImageFX's image processing effects.

IMAGEFX BASICS

The main ImageFX screen consists of a control panel and the main "Preview" display, which shows a representation of the image that is currently loaded into the main buffer. The accuracy of the Preview depends entirely on your system capabilities; however, internally, ImageFX maintains image buffers in 24-bit color or 8-bit grayscale. All drawing operations are done on the Preview display, which can be an Amiga, DCTV, Firecracker 24, HAM-E, IV-24, OpalVision, or Retina display.

You can load as many images as memory allows into the "alternate" image buffers. There is also a special "swap" buffer that is used for certain image processing operations and as a quickly accessible spare screen. ImageFX's built-in virtual memory scheme lets you load an image that would normally exceed your system resources. This is accomplished by using hard disk storage as RAM. ImageFX includes provisions for compatibility with third-party VM utilities like GigaMem.

THE RENDER BUFFER

In addition to Preview, there is also the Render buffer display. All of the Preview devices, listed above, are supported for this noninteractive display, plus the

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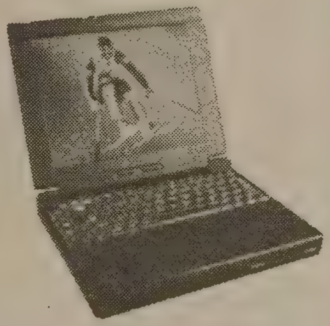

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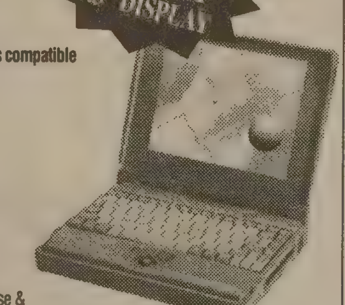

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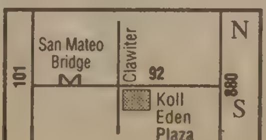
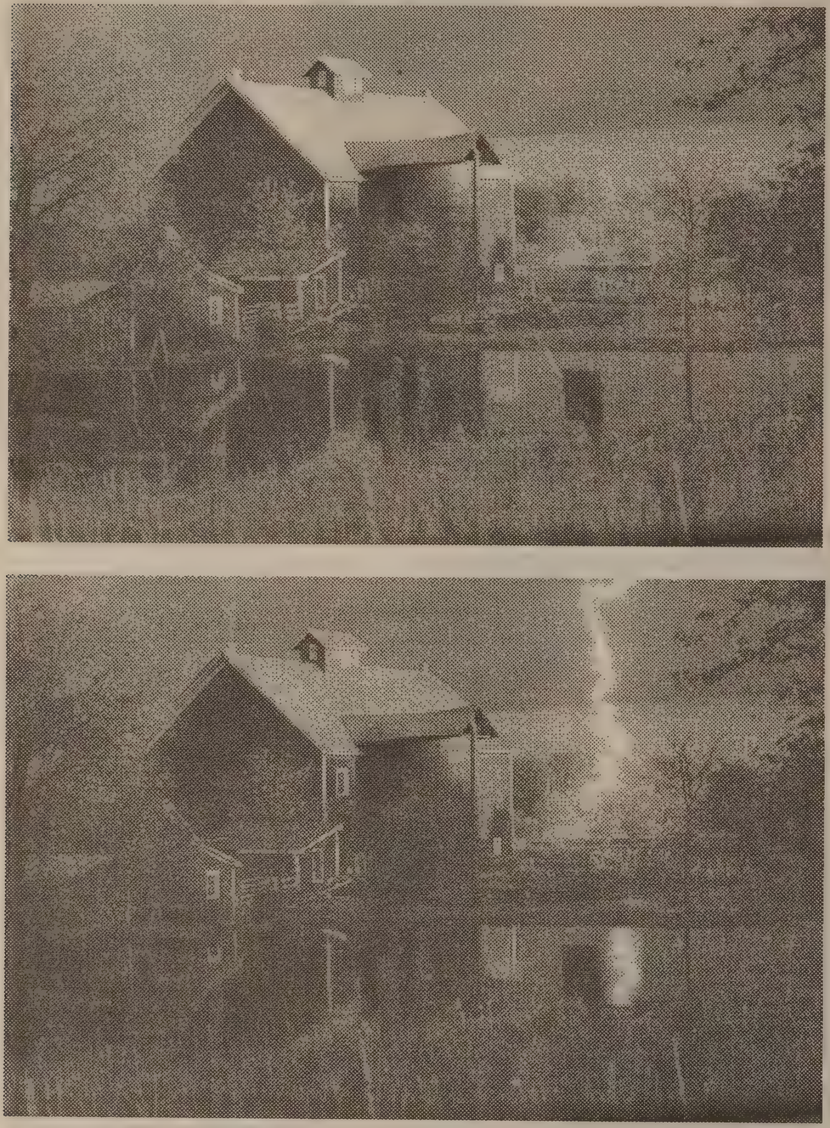




Top: Original image; bottom: Lightning, including reflection in water was added to this image. Made other miscellaneous modifications to the image.

Grafexa/Harlequin and Picasso cards, as well as anything that supports the EGS or SAGE standards.

One use for this buffer is to display images on graphics devices whose capabilities exceed what can be used for Preview. However, this will become less and less necessary as more 24-bit cards are supported for Preview. (The manual notes that a "fully integrated Video Toaster host environment for ImageFX is available" from Bird's Eye Software.)

The Render buffer is also used to hold and display images less than 24-bit/8-bit grayscale. For example, to save an image held in the main 24-bit buffer as a 256-color BMP file, you must first convert it to 256 colors. The result of this process is stored in the render buffer. (Of course, various forms of dithering are available to lessen the impact of the reduction in colors.) If the target image exceeds your system's display capability, you can use the nondisplaying "foreign" render module.

CONFIGURATION HEAVEN

Just about everything in ImageFX is configurable so you can customize it just the way you like it. This includes keyboard hotkey assignments. You can even have multiple setup icons for booting directly to a particular configuration from the Workbench.

ImageFX now features a "thumbnail" file requestor for visually selecting image files. The thumbnails are scaled-down image files that are saved along with the main image files. There is an option to search your hard drive and create thumbnails for existing images.

COLOR

Eight separate color palettes are available, each with up to 256 unique color-wells. Colors may be defined using RGB, CMY, CMYK, HSV, YIQ, or YUV values. All of the color manipulation tools you'd expect are there. You can also load and save palettes.

You can have up to eight definable color ranges, which are used for things like gradients. It should be noted that a range includes color shades "between" color-wells. So if you only had a two-color range of red and blue, using it for a gradient fill would yield a beautifully smooth gradient of red to blue.

DRAWING

ImageFX contains all of the classic drawing tools, including a very nice real-time air brush. However, behind them lies a plethora of customizable options. These include pen shape, transparency, color inclusion and exclusion, grid constraint, darken, lighten, etc.

Normally when you paint, a pixel is simply replaced with the current palette color. However, existing pixels can also be colored, blurred, sharpened, relief-mapped, changed in hue or saturation, and altered in many other exotic ways.

The Disperse mode, for example, scatters pixels around as you draw. The Smudge mode smears existing pixels around. Fingerpaint is similar but adds the current palette color. The Felt Tip mode lets you write on an image as if

Amiga News

Escom AG New Amiga Owners

As of this writing, Escom AG of Germany is apparently the new owner of the Amiga technology.

The auction "circus" that occurred April 20–21 is well documented on the nets, so I won't get into it here. Reportedly, Escom AG is the second largest computer manufacturer in Germany with annual sales of $2 billion. They plan to build Amigas in China and pursue the possibility of developing a PowerPC-based Amiga. They expect current model Amigas to start shipping again by July.

There is strong speculation that they bought the Amiga technology to enter the US market with something other than a PC clone. They also plan to market a Commodore-brand Mac clone. The deal is still subject to what is expected to be a "rubber stamp" approval by the courts.

PC Toaster

Last month I speculated that there would be no PC Toaster. Well as it turns out, there is and there isn't. At NAB NewTek announced what amounts to a standalone Toaster/Flyer. The $8000 unit can be used as a portable digital recorder (room for three removable hard drives) or controlled via SCSI by a Windows NT or Windows 95 PC, or an Amiga. A TBC is built in. It will be available without the Flyer card for those who already have one for $3000. Y/C input/output will be an option. Some effects will remain real-time just like with the current Toaster. However, some effects, particularly those that scale the video, will be rendered using LightWave. ■

you were using a highlighting marker. There are also Chalk, Charcoal, Crayon, and Watercolor modes that imitate those media.

With a second image in the Swap buffer you can "rub through" part of it into the main buffer or alternatively rub the main buffer into the Swap. A "light table" option is available so you can see both images simultaneously.

The Pantograph feature lets you copy pixels from one location in an image to another. This is nice for replicating areas, but can also be used to erase things, like a boat on a lake. The Fade In or Fade Out styles affect the beginning or ending density of color applied in one continuous stroke. These are only some of the drawing styles available in ImageFX.

The Blend slider allows you to vary the overall amount of color that is applied. Any image loaded in the Alpha Channel buffer can also affect how drawing tools are applied. The Edge modes can be used to soften the edges of drawing strokes in a more natural way. This is particularly nice when pasting down cutout brushes, since it minimizes the harsh borders that usually result.

IMAGE PROCESSING

So far, we haven't even touched ImageFX's image processing powers. Naturally, the basic scaling, 2-D and 3-D rotating, and cropping functions are included. An interesting global coloring tool is the Color Curve editor. This lets you affect the brightness levels by graphically modifying a curve using a variety of tools. Other global coloring tools include color balancing, negative, solarize, posterize, false color, grey to color, color to grey, black-and-white to grey, halftone, and antique.

EFFECTS

The Convolve menu has various sharpening, blurring, relief, and edge detection effects based on a mathematical number matrix. There is also an option to manually enter "convolution" matrix values for custom effects, which can be loaded and saved. ImageFX comes with several ready-to-load value files.

Many of the Filter menu operators are geared toward video. These include limiting luminance and chrominance, as well as the dynamic range of colors, to video-legal values. There is also an automatic stray pixel remover, which should be handy for cleaning up scanned images. (ImageFX directly supports PP&S FrameGrabbers, GVP IV-24, NoahJi's VLab, Epson page scanners, and the Sharp JX-100 hand scanner. HP ScanJet support is due out very soon.)

The Distortion menu provides a way to add swirls, waves, compression, stretching, mosaic, spherical, and other similar effects.

The Effects menu has a hodgepodge of different operators. Remove Feature attempts to automatically eliminate any user-outlined feature. The results are best when the feature is against a relatively solid background.

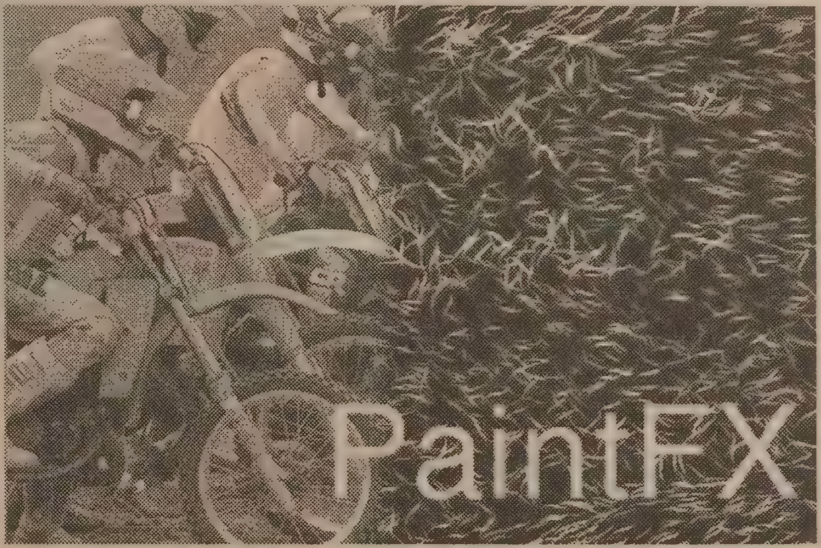
There are also various texturing effects, plus lens flare and beautiful lightning effects. One of my favorites is the Apply Texture operator, which lets you select a texture from a long list of such options as "construction paper" or "sandpaper," and apply it to an image. Light direction, texture depth, etc., are variable. The PaintFX operator applies "algorithmic brush strokes" to your image. The results are often extremely interesting and unrecognizable from the original.

ImageFX "hooks" are basically "plug-ins," which allow third-party developers to add new functions and features to ImageFX. Several are furnished, including an easy-to-use full-blown morphing program called Cinemorph.

COMPOSITING/ALPHA CHANNEL

ImageFX is a powerful image compositor. Besides merely merging two images together, a variety of other compositing methods are available. You can even include and exclude color ranges when compositing. By loading an image into the Alpha Channel buffer, you can have pixel-level control.

The Alpha Channel tools include a wave generator for rippling or waving effects. The Alpha buffer is also used by many of the image processing and drawing operations.



PaintFX example.

PREVIEW THUMBNAILS

Most of the image processing operation requestors have two small thumbnail windows. One shows the existing image and the other shows a *very* rough example of what the result of the operation will be. This can save a lot of time when you are "shooting in the dark," trying to find just the right settings.

DRAWING REGIONS

One option lets you protect areas of an image from being painted or affected by image processing. The area can be defined using a variety of tools from a simple box, to a complex polygon, to a freehand outline. The protected and unprotected regions can also be quickly reversed.

FILE FORMATS

ImageFX supports loading and saving in a myriad of formats, including Toaster framestores. I was surprised that neither AVI nor QuickTime were supported, however. The Abekas file format is supported, but sadly there are no provisions to work with an Exabyte tape drive. MPEG Level 1 encoding is featured—an Amiga first—via an ARexx script. A separate MPEG player utility is provided for playback.

AREXX

ImageFX is entirely controllable through its command language, which can be incorporat-

continued on page 340

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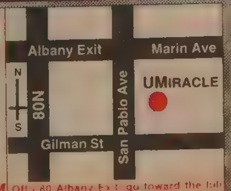

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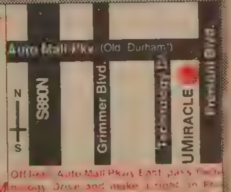

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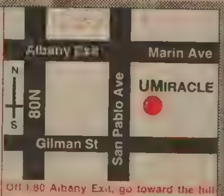

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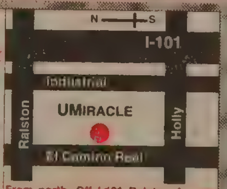

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Convergence: Multimedia And The Movies

Secrets Of Stargate, Or, Just Think What They Could Have Done With A Good Movie . . .

Multimedia is getting more cinematic, just as movies are moving onto CD-ROM. The multimedia computer is steadily edging into the territory once held exclusively by the VCR, while realistic live-action video is invading the screens once ruled by animated characters.

Secrets of Stargate: The Making of an Epic Adventure Film is a CD-ROM-based backgrounder tie-in for a science fiction movie, and exemplifies the dynamic directions that the digital convergence is carving through a rapidly emerging medium. It was produced by The Software Department of Santa Cruz (That's the name of the company. Yes, Santa Cruz is a cool city, but...) and distributed by Compton's NewMedia. Its October 28 sneak-preview at last year's Mill Valley Film Festival marked the first time that a theatrical feature and its CD-ROM tie-in would open and ship simultaneously. Other studios have since matched that feat, and more co-marketing programs like this are being planned as part of the overall publicity campaign for some features and television properties.

Advertised as a $60 million film with a $20 million marketing and promotion budget, *Stargate* is no *Citizen Kane*, but its ambitious production design is varied enough to be interesting to students, film buffs, and die-hard sci-fiers. *Stargate* made its money back domestically (MGM/UA), and like a lot of other bad American films, cleaned up overseas (Carolco).

In case you missed it, the plot of *Stargate* was certainly hokey all right, but we are talking Major Hoke here. Directed by Roland Emmerich (*Universal Soldier*), it cuisinarted together elements of *Dune*, *Indiana Jones*, *Cleopatra*, and maybe a vampire movie or two. Its stars were Kurt Russell, whose body double might have been an inflatable GI Joe; James Spader, whose acting range is freeze-framed at "astonished puppy"; and Jaye Davidson, who at least got a chance to outmorph Michael Jackson.

THE DISC BEHIND THE SCENES

This is a case in which the Mac/PC CD-ROM ($39.95) is better than the movie. Gabreal Franklin's crew at The Software Department were able to work with the filmmakers early on to prepare all this material on the making of the picture.

Secrets of Stargate is structured like an informational/educational title. You navigate through a sumptuous NeoEgyptian lobby space to choose among different information areas. Click on an invisible button at the top right corner of the screen, and you can go directly to a complete section menu. "Ancient Wisdom" may not contain everything that a straight archaeology title might try to do, but it does a decent job of providing more than the average fan might need to know about the gods, hieroglyphs, kings and pharaohs, the Great Pyramid, and the Sphinx.

You may not agree with the leaps of faith taken by the film's writers from the very powerful iconographies of Ancient Egyptian religion and mythology to pyramid-shaped spaceships enslaving flocks of peasants, but at least it suggests how some desperate and twisted plot themes are born in Hollywood. For those of us who see crop circles in our shredded wheat, it will all make perfect sense.

The "Movies" section has a series of QuickTime files that include the trailer and many silent test shots from preproduction and establishing setups. There are eighteen scenes from the final release version of the film with sound and thirteen shots of special effects, which reveal some of the early animation blocking overlays. Interviews shed light on some aspects of filmmaking and the roles of crew members.

BY TONY REVEAUX

CONVERGENCE: MULTIMEDIA AND THE MOVIES *continued...*

The "People" section has more interviews and background on the talent, along with their character descriptions; each of the production interviews includes their subject's job description. Several include a text menu of questions you can select, and for each there's a QuickTime movie of the response sequence to that question. This is better than running the continuous interview from beginning to end, as seen in some other CDs.

"Art/Stills" is a voluminous portfolio of key images of time periods, objects, individuals, and places, taken from different stages of the production. As in most of the section files, the sequence is not always organized logically. Included are sketches, working drawings, renderings, miniatures and models, and mock-ups. One good feature is that for many images, a movie and/or art icon will appear at the bottom of the screen. Click on it and you will be linked to that QuickTime movie or other image that relates to it.

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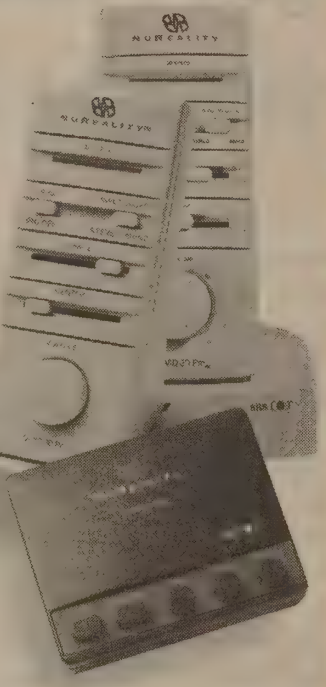

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FILM FACTS OF LIFE

Many facts about the production can be found in these files. I'd wondered, for instance, how they'd created the big "mastadje" desert quadrupeds. Turns out they used a mighty Percheron draft horse under a shell of foam, and construction for the hump and the rhino-like muzzle.

However, a lot of other elements aren't there, such as more detail on how the Stargate transporter effect was done. Much of this has to do with the main disadvantage of having to shrinkwrap the disc the same day the picture hits the screen—you miss some things that were completed at the last minute.

The "Storyboard" section is one of the disc's best multimedia aspects. Using the built-in slide show function, you can spend a few exciting minutes letting the 721 excellently drawn and professionally conceived boards animate through.

Unlike Voyager's *Salt of the Earth*, *Stargate* does not include a text file of the script, nor does it provide enough of the facts of life on the mechanics of feature film production. But wrapped around a good movie like *Lawrence of Arabia* or *Star Wars*, this multimedia format can—and will—go far.

CD-ROM GUIDEBOOKS

Not so long ago, the content CD-ROMs available for one platform could have fit in a cola cooler. Now, they are too numerous to cover in one list. We have arrived at that state of fulfillment that so many of us have been working for—it's like walking into a bookstore instead of browsing a newsrack.

CD-ROMs Rated: A Guide to the Best & Worst CD-ROMs & Multimedia Titles by Les Krantz (Computer/McGraw-Hill, $19.95) does a good job of laying out interesting CDs in a way that is informative and illuminating. Krantz has devised a rating system that seems reasonable, there are many screen shots, and a top-100 list.

continued on page 334

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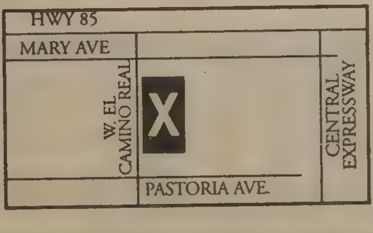

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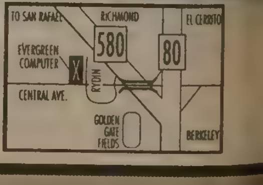

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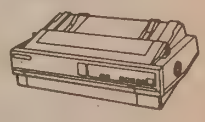

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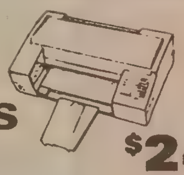

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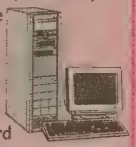

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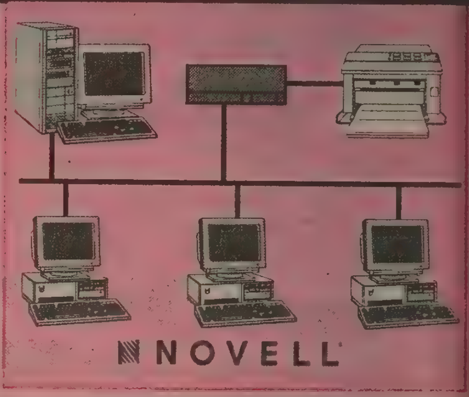

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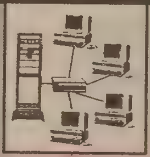

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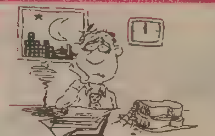

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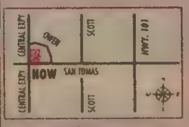

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Character Building With Animation Master

Animation Master Is Built On A Solid Foundation Of Computer Graphic Animation Principles And Offers Powerful Tools For Animation

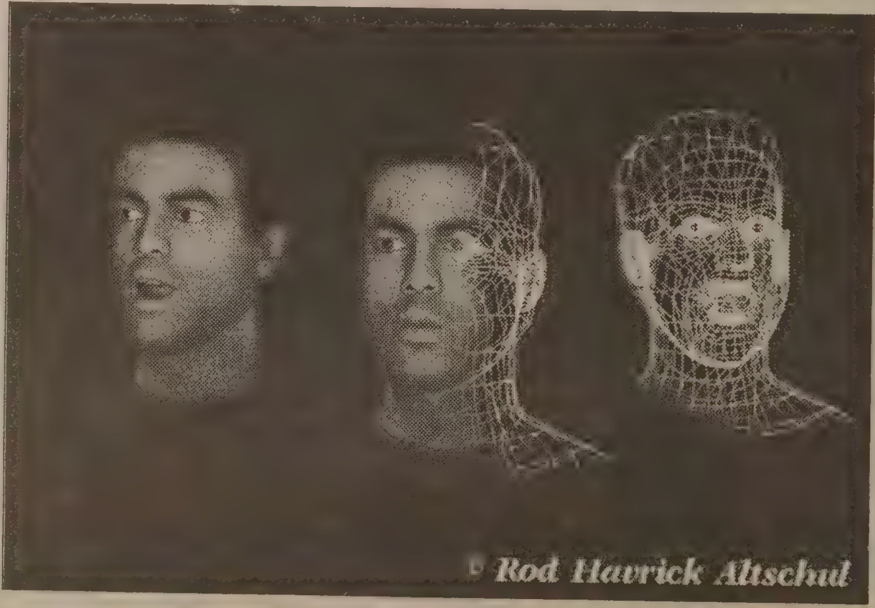
Dimensional animation, the animation of real objects, traditionally is done using anything from clay to pipe cleaners. In the world of desktop computers and workstations, building models and characters with Animation Master can be thought of as the virtual equivalent of dimensional animating.

Animation Master, from Hash, Inc., was specifically designed for creating 3-D characters that can act and show emotion while projecting a distinctively artistic look and feel. It first appeared in 1992 as a product called Will Vinton's Playmation and some of its tool metaphors paralleled Will Vinton's stop-motion animation technique, Claymation. Wire armature covered with clay can be likened to the computer segments that are attached to spines that bend and twist, bringing characters to life.

"Because many animation packages focused their early efforts on mechanical modeling methods, and things like how to fly logos around, they are just now starting to implement better ways to do character animation. From the initial design, first with Playmation, then with Animation Master, character animation has *always* been the focus. Because of this they have implemented the specific types of features that character animators need," says Doug Aberle, an animator at Will Vinton Studios.

Aberle has used both Playmation and Animation Master on many projects, including an animated Chips Ahoy commercial, and a Sesame Street short called *Cool Tools* where hammers and screwdrivers dance and bounce gleefully to the song "Hammertime." He adds, "Animation Master is perfect for artistic type animation and different kinds of dimensional animating. I'm currently working on a project about Fluffy, a dog who isn't fluffy at all," he laughs, "but has a sort of cubist look. I'm working in Animation Master because this type of character would be impossible to animate using any traditional dimensional method, yet I still wanted the dimensional look, a more experimental look. Each frame of the animation is printed out on textured paper on a color printer and those sheets will be filmed using standard cel animation techniques."

Animation Master 3.0 has a



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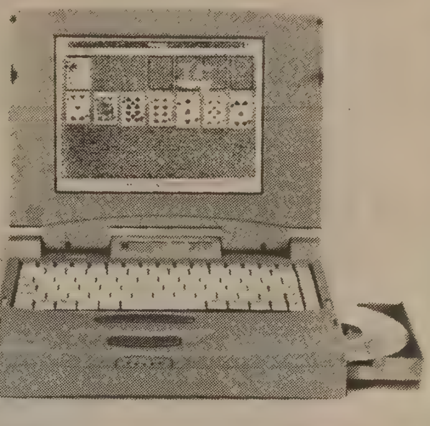

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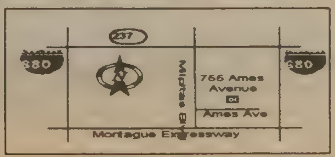

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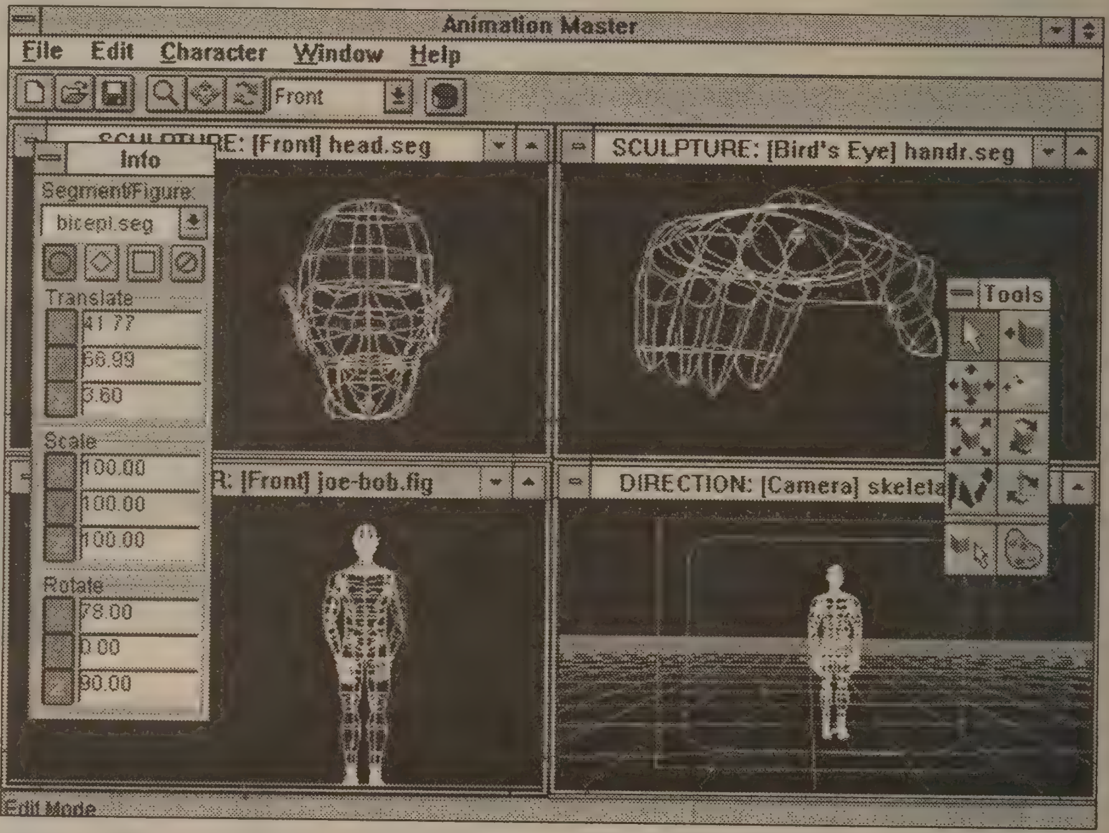
completely redesigned Windows interface with new tool palettes, online help, and pop-up text prompts, but continues to work within the artist's toolset tradition. For example, when you choose the move button, an icon of the traditional animator's white glove appears!

"I work also with a high-end animation package and often I find myself trying to do a procedure from Animation Master, but it just doesn't function the same way, it's not nearly as intuitive," says Doug Aberle. The intuitiveness begins with Animation Master's sculpting and modeling tools. The patch-modeler has a push-pull tactileness to it, similar to malleable clay.

Will Vinton explains in the original Playmation manual, "Splines are bendable, stretchable bands that replace the rigid polygons used in most 3-D software. Why use splines? Because they bend and polygons don't." Splines differ from the vectors used in polygon modelers because moving one spline can be equivalent to moving many polygons simultaneously. Polygonal models have jagged sharp edges from the polygon outlines whereas patch model profiles are smooth. Splines, by their nature, lend themselves to the creation of more natural-looking 3-D characters and models.



The new interface for Animation Master Version 3

CHARACTER BUILDING

The process of making a character starts with pencil and paper. Alan Coulter, who teaches a twelve-week Animation Master course through UCLA Extension, explains, "Drawing out and designing your character on paper is very important—it sets the dimensions and limits on just how your character will look. Draw the character from different sides, with different expressions—just as a traditional animator makes a model sheet of their characters, so should the computer animator. It is important to know exactly what your character looks like before you begin to model it."

Next, plan your character's construction: Is it a personification of an inanimate object that is solid without legs, such as a cup or pencil? Or is it a person, an animal, or a creature that has arms and legs and will need to have moving joints?

If it has joints it will need to be "skinned." Skinning a model prevents creases in joints when the character walks and moves. If your model needs skinning you can approach it two ways. One way is to build your figure from segments and save them as one big figure. Break the segments apart at the places where they intersect. Next, line up these "matching" splines, place ball and socket pivots at the joints to determine rotation, and then place spines (the wire armature equivalent) into the segments.

SPLINE MODELING

The other method is to build and save each segment separately, removing the intersection areas as you go, and lining up each segment with the next so that they match. After all the parts have been built, then they can be made into one figure.

Once you've decided on a plan for building your character model, it's time to start Animation Master. Version 3 has significantly changed in both appearance and function. In the previous version you had individual modules: you started with Sculpture and worked through the modules Character, Action, Direction, and Render. Now, you enter directly into one "world" (Direction) and have only two

Animation Master was specifically designed for creating 3-D characters that can act and show emotion while projecting a distinctively artistic look and feel.

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ANIMATION MASTER

Offers These Features For Character Animation:

- **SPLINE-BASED MODELING, RENDERING,** and **ANIMATION**—allows for creation of smooth, organic models and natural freeform movement
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- **NAMED GROUPS**—allows quick access to morphing regions
- **MOTION LIBRARIES**—complex actions can be saved and reused
- **LIPSYNCH KEYFRAMING**—for assembling lip shapes with automatic inbetweening

choices when you open the program: 1) open an existing choreography, or 2) start a new choreography. This helps to unify the work environment by having a sort of "home base" area—you leave and go to the other areas when you need to, always returning and saving your "choreography" before you exit the program.

The work environment is a type of stage where the characters "act" and the animator "directs." As the director, you start by creating a path for your character to follow. Next, build the character, adding attributes such as color and texture. The materials have their foundation in Ken Perlin's procedural texture algorithms. Decaling allows you to put a sticker, or surface map, directly onto a 3-D model so that it bends with the contours of the object as it flexes.

Decide how the character will move, and, if jointed, adjust and apply inverse kinematics to describe motion. Animation Master uses full ball and socket inverse kinematics with constraints. Version 3 allows you to render and check a specific part of your character right in the workspace without having to separately render it. Animation Master renders with photo-realistic ray-tracing.

Animation Master offers many other high-end features (see sidebar). Splines are used not only for modeling, but also for describing motion paths. In addition to inverse kinematics, you can apply different types of motion to the same figure or character. For example, you can have a man walking and waving at the same time.

Rod Altschul, a special effects consultant with a background in facial prosthetics, modeled and animated his own remarkably realistic-looking head using splines and decals. He says, "Animation Master packs powerful tools for animation. I originally chose it for its flexibility with muscle movement and then I began to appreciate it for its spline-modeling capabilities for character design."

The concept guides and illustrations in the manual offer clear explanations of difficult topics, but as a training document the manual actually makes the program seem harder to use than it really is. Yet, to their credit they offer free product support, forums on both CompuServe and America Online, and v3 offers online help. I wish they hadn't eliminated support for the flic format in favor of only using the AVI format. However, you can always output individual Targa files and make those into a flic with third-party utilities like DTA (Dave's Targa Animator).

BUILDING CHARACTER

Animation, by nature, is a time-intensive undertaking. Animation Master is no different than any other modeling and animation package in that a steep learning curve is necessary to become proficient. Character animation is, well, character building, to say the least. To become talented in this field requires persistence and practice and more practice. Animation Master's toolset not only shows a deep understanding of the artistic side of animation but is built on a foundation of solid computer graphic animation principles. ■

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RESOURCES:

Animation Master v3 (Windows PC, $1049; also available for Windows NT, Macintosh, and SGI)
Hash, Inc.
2800 Evergreen Blvd.
Vancouver, WA 98661
(360)750-0042

NOTE: Also, soon to be released by Hash, Inc. is a $150 retail version on CD-ROM called Martin Hash's 3D Animation. It contains many examples of 3-D characters and includes most of the Animation Master program. (It does not include certain of the professional studio tools, but it *will* include inverse kinematics.)

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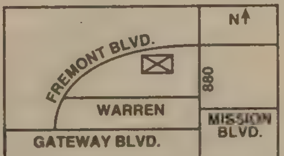

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Resources

Calendar Of Events

Conferences, Shows, Special Events

May

May 30 Music & MultiMedia '95 Conference. San Francisco. The Recording Academy. Call: Ken Simmons, (415)479-0779.

June

June 1–4 VISCOMM West '95: The Visual Communications Expo And Conferences. San Francisco. United Digital Artists. Call: 1-800-243-3238.

June 3 Computer Products Show And Sale. Sonoma County Fairgrounds, Santa Rosa. MarketPro. Call: (415)456-6730.

June 4 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Club. Call: (510)783-2803 days, 447-3857 eves.

June 7 Live Internet Interview With Edward Tivnan. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7 pm. Internet Roundtable. Call: (415)327-4386.

June 10 Robert Austin Computer Show. Oakland Convention Center. Robert Austin Corp. Call: 1-800-346-0100.

June 15–16 The Commercial Internet Conference. San Francisco. Institute for International Research. Call: 1-800-345-8016.

June 16–17 Writing For Interactive Multimedia Conference. Santa Clara. Writers Connection. Call: (408)445-3600, email: *Writerscxn@aol.com* .

June 17–19 1995 National Educational Computing Conference. Baltimore, MD. NECC '95. Call: (503)346-2834 or *NECC95@ccmail.uoregon.edu* .

June 19–21 NeXTStep Expo. San Francisco. Smith & Shows. Call: (508)470-3870.

June 22–24 ArtTeco II United Media Developers Festival. San Francisco. *Morph's Outpost on the Digital Frontier* magazine. Call: (510)704-7178.

JUNE 16–17

Writing For Interactive Multimedia

WESTIN HOTEL, SANTA CLARA

Writing for Interactive Multimedia is a two-day conference for writers covering the opportunities in interactive multimedia and presenting information on how to write for these new markets. A faculty of forty industry experts will participate and the featured speakers will be Greg Roach, artistic director, and Halle Eavelyn, president of Hyperbole Studios. The program features networking sessions and demonstrations of multimedia programs and authoring tools plus panels and seminars covering producers, developers, and buyers; agents, representatives, and consultants; writing for the nonfiction markets; writing for the children's markets; writing for the fiction and games markets; and legal and business issues. The cost ranges from $115 to $320. For more information contact Writers Connection, ***Writerscxn@aol.com*** or (408)445-3600.

CALL FOR ENTRIES

Macromedia International User Conference And Exhibition

Macromedia, in preparation for its 1995 Macromedia International User Conference and Exhibition, is soliciting submissions of top multimedia, print, and 3-D digital art projects from multimedia developers, graphic designers, and 3-D artists. Submitted projects must be developed using one or more of Macromedia's products. Entries will be considered for the Multimedia Gallery of the conference. Projects chosen to be displayed in the Multimedia Gallery will be the finalists for the User Conference's People's Choice Awards. The deadline for entry is August 1, 1995. For more information and to request an application, contact Sheri Kramer at ***gallery@Macromedia.com*** or (415)252-2000.

JUNE 27–29

Women In Technology Conference

SANTA CLARA CONVENTION CENTER

Channels for Change: Celebrating the Accomplishments of Women in Technology, the title of this year's Women in Technology Conference, features guest speakers Gloria Steinem and Dr. M.R.C. Greenwood; a range of small, interactive workshops on topics such as Building a Consulting Practice, Sexual Harassment, International Business Etiquette, gender and other culture communication, and more; exhibits of the latest products and services; and a networking break area open all morning and afternoon, where a documentary about the women who graduated from Wellesley College with Hillary Clinton will be playing. For more information, contact the International Network of Women in Technology at ***witi@crl.com*** or (818)990-1987.

June 24 Robert Austin Computer Show. Cow Palace, Daly City. Robert Austin Corp. Call: 1-800-346-0100.

June 24 Unity '95—The People Embrace The United Nations: International Culture And Technology Expo. Fort Mason, San Francisco. Call: (415)789-7673.

June 26–29 USENIX Conference On Object-Oriented Technologies. Monterey. USENIX. Call: (714)588-8649.

June 27–29 Channels For Change: Women In Technology Conference. Santa Clara. WITI. Call: (818)990-1987, email: *witi@crl.com* .

July

July 2 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Club. Call: (510)783-2803 days, 447-3857 eves.

July 9–10 Mactivity/Web: The Macintosh Web-Masters University Conference. San Jose. Mactivity. Call: (408)354-2500, 1-800-798-2928, *http://www.mactivity.com/macweb/mactivityweb.html/* .

July 10–11 Network Outlook Conference. Burlingame. Technologic Partners. Call: (212) 343-1900.

July 11–13 Mactivity '95: The Macintosh Connectivity Conference. San Jose. Mactivity. Call: 1-800-798-2928.

July 18–20 Network Multimedia Conference. San Jose. DCI. Call: (508)470-3880.

July 24–26 IC Card Expo. Santa Clara. *IC Card Systems & Design* magazine. Call: (404)618-0422.

August

August 6 Computer, Ham Radio, Electronics Swap Meet. Livermore. Livermore Amateur Radio Club. Call: (510)783-2803 days, 447-3857 eves.

August 16–20 One BBSCON. Tampa, Florida. One Inc. Call: (303)693-5253.

August 22–23 NetWare User Conference. San Jose. NetWare Users International. Call: (801)429-5657.

August 29–September 1 Windows Solutions Con-

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LTE Elite 486DX-75 CX 8/510	4939
LTE Elite 486DX2-50 CX 8/340	4259
ProLinea MT 486DX2-66 8/525	1799
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DeskPro XL Pentium-75 8/535	2999
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TM 4000 WIN DX4-100 4/524 Active	3749
TM 5000 P-75 8/500 Dual Scan/PCI	4799
TM 5000 P-75 8/775 Active/PCI	5399

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IBM

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Texas Instruments

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Classes, Seminars, Workshops

May

May 27 Web Publishing Workshop. Palo Alto. Internet Business Solutions. Call: Kristina Schillberg, (415)617-3722.

May 29 Complete Online Novell CNA Training. Berkeley. Cyber State University. Call: (510)253-TREK.

May 29 Image Vision Library Class. Mountain View. Silicon Graphics. Call: 1-800-800-4SGI.

May 30–July 25 Writing For Multimedia: New Horizons For Writers Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

May 31 Hands-On Internet Training Class. San Francisco. The Well. Call: (415)825-9394.

May 31 Image And Communication Skills For Women Workshop. Sunnyvale. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

May 31 Intro To Premiere Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

May 31 Windows Optimization And Support Class. Oakland. California Computer Options. Call: (510)444-5700 ext. 188.

May 31–June 1 AutoCAD Release 13 Update Training Class. Sausalito. The ACADemy. Call: (415)331-9466.

May 31–July 19 From Wagner To Virtual Reality: History Of Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

May 31–July 19 Intro To Interactive Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June

June 1 Image And Communication Skills For Women Workshop. Concord. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

June 1 Intro To Windows 3.1 Level 1 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 1–2 Project 4.0 Win/3.0 Mac Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 1–2 Understanding Document Imaging Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 1–22 Multimedia And The Internet Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 1–22 Survey Of Interactive Advertising Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 1–August 3 Graphics And Human Interface For Multimedia On The PC Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 2 An Intro To The Pinnacles Component Information Standard; A Management Overview Of The Information Interchange Standard For The Semiconductor Industry. San Francisco. GCA. Call: (703)519-2888.

June 2 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 2 Image And Communication Skills For Women Workshop. Sacramento. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

June 2 Intro To MS-DOS 5.0/6.2 Level 1 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 2–3 Intro To Powerpoint Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 3 Computer Ergonomics: Save Yourself Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 3 Overview Of Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 3 Photoshop: An Intro For Mediamakers Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 4 Internet 101: An Introduction And Overview For Beginners And The Curious. San Francisco. Internet Literacy Consultants. Call: (415)469-8271.

June 5 AT&T UNIX System V Release 4 Administration Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

June 5 Complete Online Novell CNE Training. Berkeley. Cyber State University. Call: (510)253-TREK.

June 5 Macintosh Basics For Multimedia I Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 5–6 Intro To Microsoft Windows For New Users Class. San Francisco. SFSU College of Extended Learning. Call: (415)904-7700.

June 5–6 PC Repair Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 5–6 System Administration Of Windows NT Server Seminar. San Francisco. Center for Advanced Professional Development. Call: (714)261-0240.

June 5–6 Understanding Data Communications Seminar. San Jose. Data-Tech Institute. Call: (201)478-5400.

June 5–8 AutoCAD Level I Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

June 6 Internet Introduction And/Or Independant Computer Labs. Mountain View. Mountain View-Los Altos Adult School. Call: (415)940-1333.

June 6 Multimedia Communications: Technologies, Systems, And Services Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

June 6 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

June 6–7 AutoCAD ADE Class. Sausalito. The ACADemy. Call: (415)331-9466.

June 6–August 15 Empowering The Audience: Basics Of Multimedia Interaction Design Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 7 ACCPAC Plus Accounting Software Training Class For Beginners. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

June 7 Intro To Word For Windows Class. San Francisco. SFSU College of Extended Learning. Call: (415)904-7700.

June 7 Paradox 4.5/5.0 For DOS/Win Level 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 7–8 Installing And Troubleshooting Windows NT Server Seminar. San Francisco. Center for Advanced Professional Development. Call: (714)261-0240.

June 7–9 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 7–July 5 Intro To Authorware Professional Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 7–July 12 Intro To Fractal Painter Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 8 HP Laser Printer Repair Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 8 Intermediate Word For Windows Class.

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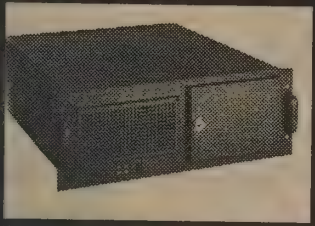

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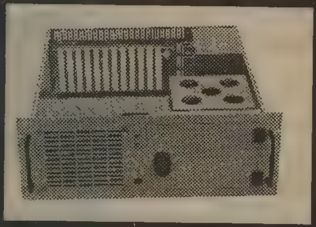

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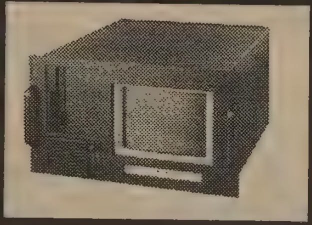

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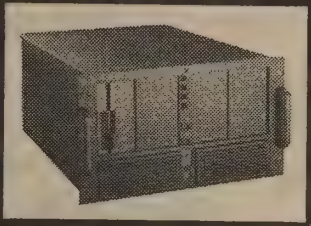

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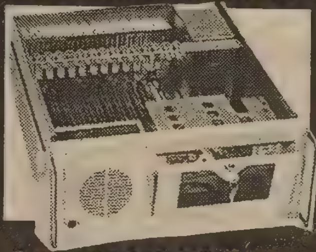

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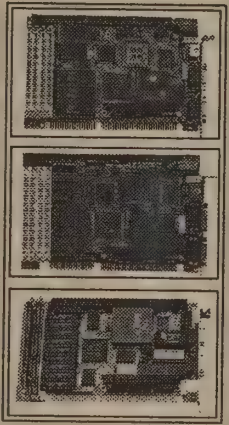

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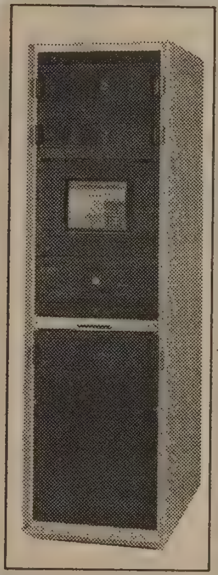

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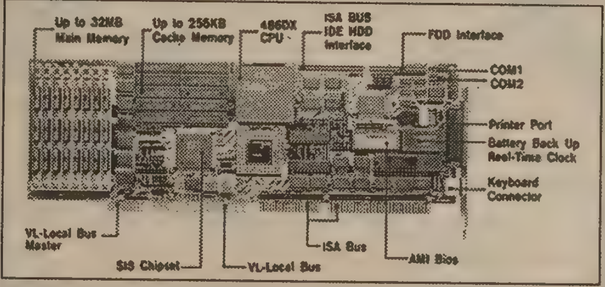

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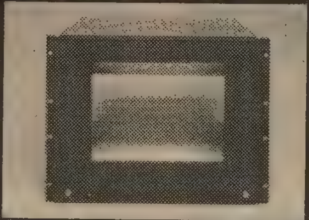

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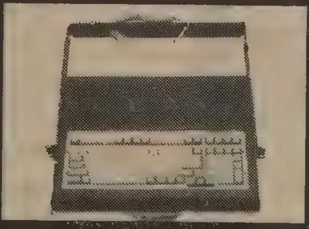

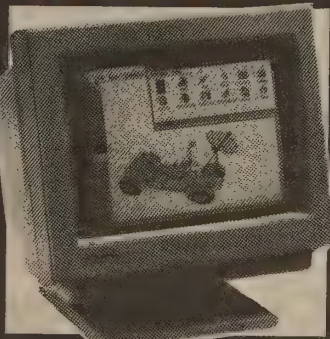

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Calendar Of Events *continued...*

San Francisco. SFSU College of Extended Learning. Call: (415)904-7700.

June 8 MS Office 4.2 Level 1 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 8 PowerPoint 4.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 8 Word 6.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 8–9 Fundamentals Of AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

June 8–9 Troubleshooting The Mac Workshop. San Jose. Data-Tech Institute. Call: (201)478-5400.

June 9 WordPerfect 6.0 For Windows Level 1 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 10 Careers In Multimedia Seminar. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 10 Media Composer Editing Tips And Techniques Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 12 Access 2.0 Level 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 12 Excel 5.0 Win/Mac Level 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 12 Image And Communication Skills For Women Workshop. Santa Rosa. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

June 12 Object-Oriented Programming In C Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

June 12 Windows 3.1 Advanced Class. Oakland. Cal Computer Options. Call: (510)444-5700 ext. 188.

June 12–13 Accessing The Internet Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 12–13 Network Fundamentals Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 12–13 The Laser Printer Survival Course. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 12–13 Troubleshooting And Maintaining The IBM PC And Compatibles Seminar. Sacramento. Data-Tech Institute. Call: (201)478-5400.

June 12–13 Understanding Client/Server Computing Seminar. Sacramento. Data-Tech Institute. Call: (201)478-5400.

June 12–15 AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

June 13 Image And Communication Skills For Women Workshop. San Francisco. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

June 13 Learn To Use The Internet For Fun And Profit Class. San Francisco. The Learning Annex. Call: (415)788-5500.

June 13 Microsoft Word For Beginners Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

June 13–14 Fundamentals Of Data Communications And LANs Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 13–16 Elementary AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

June 13–16 Intro To AutoCAD Class. San Francisco. SFSU College of Extended Learning. Call: (415)904-7700.

June 14 Entrepreneurs Workshop On Funding And Finance. San Jose. The Center for Software Development. Call: (408)494-8378.

June 14 Image And Communication Skills For Women Workshop. San Jose. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

June 14 Internet For Writers Class. San Francisco. The Learning Annex. Call: (415)788-5500.

June 14 MAS 90 Accounting Software Wholesale And Distribution Class. San Francisco. Lindquist & Lukrich. Call: (415)905-6900.

June 14 WordPerfect 6.0 For DOS Level 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 14–15 Advanced Troubleshooting And Upgrading Techniques For The IBM PC And Compatibles Seminar. San Jose. Data-Tech Institute. Call: (201)478-5400.

June 14–15 Fundamentals Of T1/T3 Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 15 Accounting Software Comparison Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

June 15 Image And Communication Skills For Women Workshop. Union City. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

June 15 Internet For Artists Class. San Francisco. The Learning Annex. Call: (415)788-5500.

June 15 Multimedia Training: An Idea Whose Time Has Come Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 15 Software Licensing Agreements Workshop. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 15–16 Communications And Modem Troubleshooting Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 17 Demystifying Multimedia Technology Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

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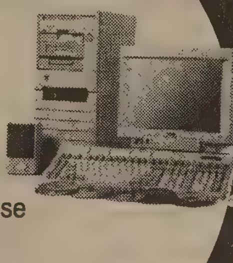

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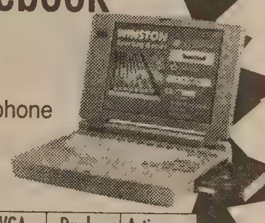

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• 14.4/14.4 Fax/Modem	add $55
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• Panasonic 562B CD-ROM Double Speed	$195
• Microsoft DOS 6.22 (w/system)	$38
• Glare/guard Standard Anti-Glare Filter Block Monitor glare protection for your eyes	$15
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Pentium 90/100MHz PCI/VLB 256K no CPU	$195
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486DX2-80 256K Cache VLB with CPU	$295
486DX2-66 256K Cache VLB with CPU	$205
486DX2-40 256K Cache VLB with CPU	$180
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• To 510MB/700MB/810MB	add $126/256/326
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• Extra NIMH Battery Pak	add $116
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• Docking Station	add $410

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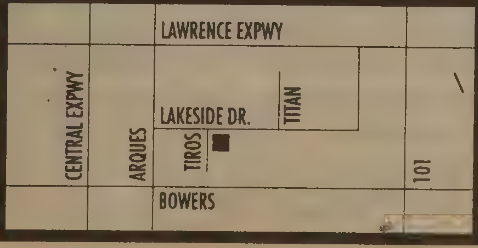

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Calendar Of Events *continued...*

June 17–18 Digital Editing With QuickTime Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 18 Writing For Multimedia Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 19 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 19 Intro To IRIX Class. Mountain View. Silicon Graphics. Call: 1-800-800-4SGI.

June 19 Mastering Windows For Experienced Users Class. San Francisco. SFSU College of Extended Learning. Call: (415)904-7700.

June 19 Onyx Maintenance Class. Mountain View. Silicon Graphics. Call: 1-800-800-4SGI.

June 19 UNIX System V Release 4 Internals Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

June 20 Excel For Intermediate Users Class. San Francisco. Lindquist & Lukrich. Call: (415)905-6900.

June 20 Macintosh Basics For Multimedia II Class. San Francisco. SFSU College of Extended Learning. Call: (415)904-7700.

June 20 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

June 20–23 Banyan Vines Advanced Administration Class. Oakland. Cal Computer Options. Call: (510)444-5700 ext. 188.

June 20–23 Four-Day Novell CNA Certification Preparation Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 20–August 15 3D Modeling On The Mac Class. San Francisco. SFSU College of Extended Learning. Call: (415)904-7700.

June 21 ACCPAC Plus Accounting Software Wholesale And Distribution Training Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

June 21 Paradox 4.5/5.0 For DOS/Win Level 3 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 21 Quattro Pro 5.0/6.0 For DOS/Win Level 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 21–23 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 22–23 Understanding LANs Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 24 CNE Hands-On Study Group With Remote Access. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 24–25 Adobe After Effects: Digital Effects And Layering On The Desktop Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282:

June 24–25 Hands-On Video Toaster Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 25 Internet 303: A Two-Part Seminar. San Francisco. Internet Literacy Consultants. Call: (415)469-8271.

June 26 Lotus 1-2-3 4.0 For DOS/Win Level 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 26–27 Incorporating Object-Oriented Methods Into Relational Databases Class. San Francisco. DCI. Call: (508) 470-0526.

June 26–27 Novell System Supervisor 3.12 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 26–27 Your Mac Inside Out: Troubleshooting Basics Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 26–August 1 Intro To Excel 5.0 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 26–August 1 Intro To Microsoft Word 6.0 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 26–August 1 Intro To Windows 3.1 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 26–August 14 From Wagner To Virtual Reality: History Of Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 26–August 17 Computerized Accounting/DacEasy Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 27 FoxPro 2.6 For DOS/Win/Mac Level 3 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 28 Preparing For An Online Edit Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 28–29 Intermediate Auto-Architect Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

June 28–August 23 Real World Writing For Interactive Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 29 Excel 5.0 Win/Mac Macro Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 29–30 Accessing Online Services Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

July

July 1–2 Graphic Design: The Transition Into Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 5–August 16 Breaking The Sound Barrier: Multimedia Sound Production Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 6–7 MS Word Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

July 7–8 Intro To Publisher Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

July 7–8 Intro To Windows 3.1 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

July 10 Shell Command Language For Programmers Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

July 10–August 3 The Tapestry Project, Session One. San Francisco. San Francisco Digital Media Center. Call: (415)824-9394.

July 13 Learn To Use The Internet For Fun And Profit Class. San Francisco. The Learning Annex. Call: (415)788-5500.

July 13–14 Advanced Troubleshooting For The Macintosh Seminar. San Jose. Data-Tech Institute. Call: (201)478-5400.

July 15 Intro To Virtual Reality Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 15–16 Production Management For Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 17 Internet For Writers Class. San Francisco. The Learning Annex. Call: (415)788-5500.

July 17 Intro To Client/Server Computing In The Open System Environment Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

July 17–18 Enabling Networks For Internet Access Seminar. Sacramento. Data-Tech Institute. Call: (201)478-5400.

July 17–August 10 The Tapestry Project, Session Two. San Francisco. SF Digital Media Center. Call: (415)864-3547.

July 17–August 14 The Technology Of Networked Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

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486DX2-66	n/a	$305	$335

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2842VL-32-bit VLB fast SCSI-2/w.kit,drv,cable	235 /260
2940 - 32-bit PCI Fast SCSI-2/ w.kit, drive, cable	299

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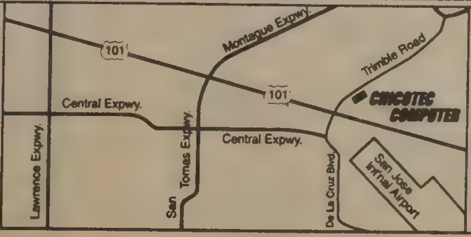

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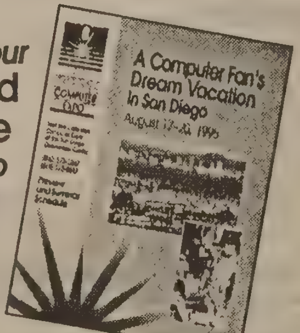

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Resources

Calendar Of Events *continued...*

July 18 Internet For Artists Class. San Francisco. The Learning Annex. Call: (415)788-5500.

July 18 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

July 19 Advanced C/S Computing And Application Considerations Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

July 20–21 AutoCAD Level III Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

July 20–21 Capturing The Electronic Consumer Seminar. San Francisco. Institute for International Research. Call: 1-800-345-8016.

July 20–21 MS Excel Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

July 20–August 17 Women And Technology: A Road To Parity Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 21–22 Intro To Microsoft Word 6.0 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

August

August–Date TBD Kodak Photo CD Pre-Press Seminar. San Francisco. ITS CD. Call for more info: (415)668-4688.

August 1 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

August 3–4 Windows On NetWare Class. San Jose. Center for Advanced Professional Development. Call: (714)261-0240.

August 5 Computer Ergonomics: Save Yourself Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

August 7–August 31 The Tapestry Project, Session Three. San Francisco. SF Digital Media Center. Call: (415)824-9396.

August 12 Careers In Multimedia Seminar. San Francisco. SFSU Extended Education. Call: (415)904-7700.

August 12–13 Rescuing Your Mac: Advanced Troubleshooting For Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

August 14 C++ For Non-Programmers Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

August 15 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

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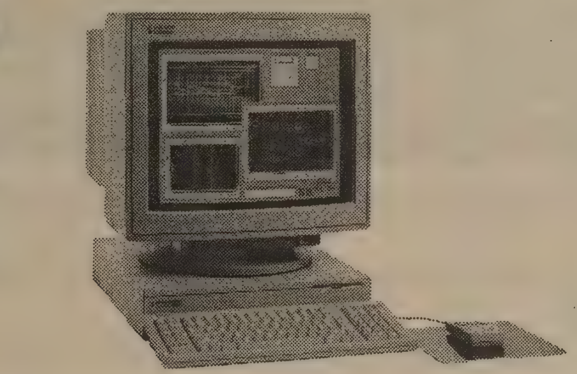

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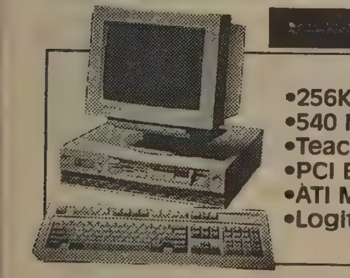

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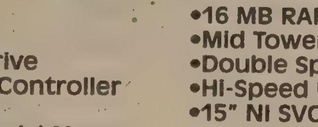

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EXODUS/BDPA Silicon Valley Chapter. (408)654-8911. 8-N-1, 28,800. EXODUS newsmagazine + Black Data Processing Associates; multicultural publication + IT professionals; BDPANet/Afronet/Internet email. Sysop: Willie Mackey. [Exp. #137.]

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Pentium 100C PCI W/Enh IDE & IO	699	859*	1,099	1,119	1,239	1,349	1,369	1,389	1,609	1,699
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Pentium 90C PCI/VLB	559	719*	959	979	1,099	1,209	1,229	1,249	1,469	1,559
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486DX2-66C ISA	149	309	549	569	689	799	819	839	1,059	1,149
486DX50C ISA	159	319	559	579	699	809	829	849	1,069	1,159
486DX2-50C ISA	149	309	549	579	689	799	819	839	1,059	1,149
486DX40C ISA	139	299	539	569	679	789	809	829	1,049	1,139
486SX2-66C ISA	139	299	539	569	679	789	809	829	1,049	1,139
486SX33C ISA	109	269	509	539	649	759	779	799	1,019	1,109
486SLC33 ISA	79	239	479	509	619	729	749	769	989	1,079
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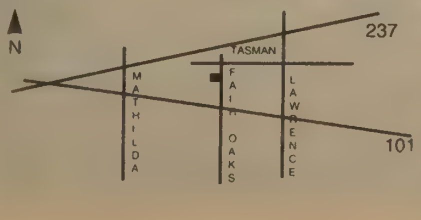

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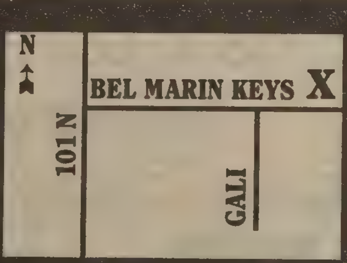

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510

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BULLETIN BOARDS cont.

CRI files. Seekers, skeptics welcome. [Exp. #137.]

Olde Stuff BBS. (510)530-3051. 8-N-1, 24 hrs., 9600. Antiques and collectibles. Buy, sell, trade. History, genealogy, events. Free. [Exp. #138.]

The Phantom Zone BBS. (510)538-9586. 8-N-1, 24 hrs., 300–14,400. Three lines. Files, messages, games, echo mail, FidoNet, Internet email. Friendly sysop. [Exp. #137.]

Pleasant BBS! (510)689-0519,,22. 24 hrs., 2400–14,400. Most new GIFs, games, shareware, adult files, more. Very friendly sysop. Free/fees. [Exp. #139.]

Smorgasbord BBS. (510)440-1125. 2400–28,800. Four lines. Fremont, Sunnyvale, Milpitas. 80,000 files, Free Internet email. [Exp. #139.]

$tar Net BBS. (510)893-9341. 24 hrs., 2400–14,400. Online games, online matchmaker, online ordering, 2GB+ adult GIFs, CD-ROM. Free. [Exp. #138.]

Tiger Team Buddhist Information Network. (510)268-0102. 24 hrs., 14,400. "America's Buddhist online service." Internet email, Usenet, files, graphical user interface. [Exp. #139.]

The Unknown Realm. (510)885-0538. 35 hrs./8 days, 14,400. Call for a great time, FidoNet, large file areas, no ratios. Free. [Exp. #137.]

VisionBytes! (510)355-0968. 28,800. Vision care topics, eyecare referrals. Member: ASP, Apogee, Epic, FidoNet. Free. [Exp. #138.]

The VisualAge BBS. (510)685-9585. 8-N-1, 24 hrs., 2400–14,400. Local echomail nets, registered doors, three CD-ROMs, Internet email soon. Free/pay. Sysops: David Afana, Gus Damian. [Exp. #138.]

Visual Basic Only BBS. (510)674-9676. 300–14,400. New! For Microsoft Visual Basic programmers of all levels; files, forums. [Exp. #138.]

The Warped BBS. (510)939-8344. 24 hrs., 300–28,800. Two lines. WWIV 4.23, 50 message bases, 2GB+. Free. [Exp. #139.]

Windows Online. (510)736-8343. Largest Windows BBS. Members receive free Internet; 30,000 Win 3.x files. Free trial. [Exp. #137.]

Wishing Well BBS. (510)745-7901. 1200–14,400. Online games, quality files, ANSI art, RIP graphics, matchmaker, adult files. Sysop: MaryLou White. [Exp. #137.]

707

CyberDate BBS. (707)426-4149. 8-N-1, 24 hrs. Mon.–Fri., temporarily closed Sat. and Sun., 14,400. Meet singles locally/globally with our picture databases! Free/fee. Sysop: Richard Engle. [Exp. #139.]

The Electronic Grapevine. (707)257-2338. 24 hrs., up to 28,800. RIME, Fido, Usenet, Internet email; 35,000+ files, more daily. Free trial. [Exp. #139.]

Ocean View BBS. (707)257-2235. 8-N-1, 24 hrs., 14,400. Internet, VirtualNET, FidoNet, HOGnet, online games. Napa, CA. Free. [Exp. #137.]

916

Contract joBBS. (916)863-3166. 8-N-1, 24 hrs., 2400–14,400. Computer job listings: contract programming and permanent, domestic and international. Free. Sysop: John Kunhart. [Exp. #138.]

EBS MicroSystems. (916)247-1232. 8-N-1, 24 hrs., 300–28,800. 10 lines. IFDC FileGate 5000 new files a month. FidoNet/PC catalog. Sysop: Bruce Knapton. [Exp. #139.]

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USER GROUPS

AMIGA

AGA. Meetings: 7th of each month, 7:00 pm, SF State University. Graphics users group for all Amiga users of 2D, 3D, animation, multimedia, and video software. Call: Ollie, (415)863-8792. [Exp. #140.]

AUM—Amiga Users Of Marin. Meetings: 3rd Tues., 7:30 pm. College of Marin, Science Center, Room 191, Kentfield. Call: (415)924-5384. [Exp. #140.]

AWEST Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)474-1164. [Exp. #142.]

FAUG—First Amiga User's Group. Meetings: 1st Tues., 7:30 pm, HT Electronics, 275 N. Mathilda Ave., Sunnyvale. Q&A, new product demos, public domain software. Call: Mike Fischer, (415)855-9816, BBS (415)341-7566, *mikef@vid.hp.com* . [Exp. #140.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: Jeff King, (916)221-2651. [Exp. #142.]

RE-Amiga—Redwood Empire Amiga Users Group. Meetings: 2nd Tues., 7:30 pm, Sonoma State University, Darwin Hall, Rm. 121, 1801 East Cotati Ave., Rohnert Park. Call: (707)523-9978 or BBS (707)539-6944. [Exp. #140.]

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat. (Sun. in April), 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Call: Lawrence Brown, (408)744-0162; Randy Abel, (408)356-9405. [Exp. #138.]

APPLE

PAUG—Peninsula Apple User Group. Meetings: 3rd Thurs., 6:30 pm, Computer Attic, 2750 El Camino Real, Redwood City. Beginners and advanced, question and answer, new product demos, public domain software. Call: Ted Wagner, (415)345-0751. [Exp. #140.]

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steyeson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #141.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat. 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games. PD software, MIDI, applications. Call: Roger Sinasohn, (415)469-7924. [Exp. #139.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp. #138.]

CAD

BMUG CAD SIG. Meetings: last Wed., 6:00 pm, Academy of Art College, 79 New Montgomery, San Francisco. Environmental design/drafting. Call: (510)549-BMUG. [Exp. #137.]

MAUG—Marin AutoCAD Users Group. Meetings: 1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Call: Priscilla Mills, (415)453-4480. [Exp. #142.]

Sonoma County AutoCAD Users Group. Meetings: 3rd Wed., 6:30 pm, Piner High School, Rm. H-83, 1700 Fulton Rd., Santa Rosa. Call: John Weitzel, (707)525-8147. [Exp. #137.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. (510)531-3734 or 793-7868. [Exp. #141.]

CWEST C64/128. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)626-9946. [Exp. #142.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510)689-3224. [Exp. #137.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Meetings: Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: (916)221-2651. [Exp. #142.]

DESKTOP PUBLISHING

BMUG Desktop Publishing And Design SIG. Call: Les Cowan, (415)641-6033. [Exp. #138.]

CorelDRAW Ventura Users Group. Meetings: 1st Mon. (except when holiday, then 2nd), Varian Associates, 3075 Hansen, Palo Alto (March meeting at Santa Clara Marriott). $2/person. Call: Rick Altman, (408)252-5448. [Exp. #139.]

Redwood Computers Desktop Publishing Training Center. Classes in programs such as Photoshop, Illustrator, QuarkXPress, PageMaker, CorelDraw. Call: (707)795-1700. [Exp. #139.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp. #142.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, beginner's, Visual Basic, education/entertainment, and more. Call: (510)943-1367. [Exp. #142.]

EastBay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Montclair. All microcomputers, MS-DOS, CP/M. Call: (510)653-2627. [Exp. #142.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp. #140.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm, Napa High School Lecture Hall, 2475 Jefferson St., Napa. Call: Lee Schwab, (707)257-2675. [Exp. #138.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, Meiklejohn Hall, Room 2002, CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Swap starts at 7:00. Call: (510)538-2449 or 276-6450. [Exp. #138.]

PC Users Group Of The Redwoods. Meetings: 2nd Thurs., 6:30 pm, Santa Rosa Veteran's Memorial Building, East Dining Room, Maple Ave., Santa Rosa. Call: (707)527-USER; or Mel Del Gallo, (707)571-0373. [Exp. #141.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, Rec Room, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (415)593-9981. BBS (415)571-9259. [Exp. #138.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm. 110 Pacific #153, San Francisco. For those who use computers in business. Visitors $10. Call: Jordan Rosenberg, (415)788-5338. MCI Mail: 425-1545. [Exp. #138.]

San Francisco Computer Society. Meetings: 4th Mon., 7:00 pm, Presbyterian Church, 1329 7th Ave., San Francisco. CPM and DOS, novices welcome. Call: Bob Forsberg, (415)885-6202. [Exp. #138.]

San Francisco PC Users Group. Meetings: 3rd Tues., 6:15 pm SIGs, 7:30 pm General Meeting. St. Mary's Conference Center, 1111 Gough St., San Francisco. Call: (415)346-2644, events; Kendall Callas, (415)821-1310; Loyd Cribs, (415)751-5219. [Exp. #142.]

Software Forum (formerly SEF) Business Operations SIG. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Mike Schmit, (408)244-6826. [Exp. #141.]

Software Forum (formerly SEF) International Software SIG. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Charlie Pfefferkorn, (408)923-7570. [Exp. #141.]

South Bay WordPerfect User Group. Meetings: 4th Tues., Saratoga Community Library, Fruitvale and Saratoga Ave., Saratoga. WordPerfect product presentations and education. Mainly Windows. Free. Call: Scott Maiden, (408)253-4591. [Exp. #139.]

Stanford Palo Alto PC User's Group. Meetings: last Wed., 7:30 pm, Varian, 3075 Hansen Way (off Page Mil Road), Bldg. 7, Auditorium, Palo Alto. Call: (415)329-8252. [Exp. #142.]

INTERNET

BMUG Internet SIG. Meetings: 2nd and 4th Weds., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Accessing the Internet through World Wide Web using the Macintosh. Email: *dan_meriwether* or *susan_adrian@bmug.org* . [Exp. #137.]

Online And Interactive SIG. Meetings: 3rd Tues., 6:30 pm, usually at Software Publishing Corp., Bldg. 3, 3165 Kifer Rd., Sunnyvale. SIG of the Silicon Valley chapter of the Society for Technical Communication. Call: Charly Rhoades, (408)379-7000 ext. 1414 or *charly@hal.com* . [Exp. #137.]

Software Forum (formerly SEF) Internet SIG. Meetings: 2nd Wed., 7:30 pm, Sun Microsystems, 2750 Coast Ave., Bldg. 6, Mountain View. $10. Call: (415)390-9477. [Exp. #141.]

LEGAL

BMUG Law SIG/ Law SIG South. Meetings: irregular. Call: Randy, (916)661-2280 or *rbs@aol.com* . [Exp. #137.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed., odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St. Brown bag meetings. Call: (415)421-5650. [Exp. #142.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp. #141.]

BMUG—Berkeley Macintosh User Group. Meetings: every Thurs., 6:00 pm, Warren Hall, Rm. 22, UC Berkeley campus. Call: (510)549-BMUG. [Exp. #137.]

BMUG LesBiGay SIG. Meetings: 3rd Sun., 6:00 pm, BMUG office, 2055 Center St., Berkeley. Call: see the LesBiGay conference on Planet BMUG (bmug.org). [Exp. #137.]

BMUG West. Meetings: last Mon., 6:30 pm, San Francisco Exploratorium. Call: (510)549-BMUG. [Exp. #137.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Enjoyable SIG meetings. Call: Tom Bacon, (510)945-4548. [Exp. #142.]

USER GROUPS cont...

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Call: Roger Sherman, (415)859-5146. [Exp. #142.]

Macs Of Marin. Meetings: last Wed., 7:30 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 7:30, meeting 8:00, members free, nonmembers $5. Call: Richard, (415)485-5596. [Exp. #140.]

PAUG—Peninsula Apple User Group. Meetings: 3rd Thurs., 6:30 pm, Computer Attic, 2750 El Camino Real, Redwood City. Beginners and advanced, question and answer, new product demos, public domain software. Call: Ted Wagner, (415)345-0751. [Exp. #140.]

P.I.E. Macintosh Special Interest Group. Meetings: 2nd Thurs., 7:15 pm, Lynbrook High School, Rm. 32, 1280 Johnson Ave. (btw. Bolinger & Prospect), San Jose. Call: Mickey Schumacher, (408)993-9363. [Exp. #139.]

San Leandro Apple Eaters Users Group (MUG). Meetings: 1st Thurs., 7:30 pm, San Leandro High School, Rm. 204, 2200 Bancroft Ave., San Leandro. Call: Stan (510)351-3973 or Ed (510)651-8521. [Exp. #140.]

SMUG (Stanford Palo Alto Macintosh User's Group). Meetings: 1st Mon., 7:00 pm, Syntex Conference Center, 3401 Hillview Ave., Palo Alto. Call: (415)328-4933. [Exp. #137.]

Software Forum (formerly SEF) Macintosh SIG. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Call: Jeff Cherniss, (408)358-5150. [Exp. #142.]

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #141.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Beginners to experts; library, newsletter, SIGs, and a BBS. Call: Jerry, (510)828-0959. [Exp. #142.]

MARKETING

Software Forum (formerly SEF) Marketing SIG. Meetings: 4th Thurs., 7:00 pm, Cubberley Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Bill Ryan, (415)615-7906. [Exp. #141.]

MULTIMEDIA

Joe's Digital Diner. Meetings: every other week, 5:30 interactive happy hour, 7:00 pm dinner, 8:00 pm showcase, 3435 Army St., Ste. 222 (at Valencia), San Francisco. An evening mixing home cooking, six multimedia stations, and a special presentation on new media, Internet, etc. Call: (415)824-9394. [Exp. #137.]

Macromedia User Group. Meetings: 1st Tues., 6:00 pm, 600 Townsend St. at 7th, San Francisco. For multimedia developers of all levels who use Macromedia products. $5. Call: (415)252-2295. [Exp. #141.]

Software Forum (formerly SEF) Multimedia SIG. Meetings: 1st Thurs., 7:00 pm, Center for Software Development, 111 W. St. John St., Suite 200, San Jose. $10. Call: Dave McCutcheon and Charlie Pfefferkorn, (510)438-9565. [Exp. #142.]

NETWORKING

Apple Network Manager's Association. Meetings: 3rd Thurs., 5:30 pm, Syntex Laboratories, Palo Alto. A forum for discussing problems and solutions associated with managing mixed environments with AppleTalk networks. Call: Bill Woodcock, (510)843-6369, email *woody@zocalo.com* for directions. [Exp. #137.]

BMUG Networking SIG. Meetings: 4th Tues., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Call: James, (510)233-7151. [Exp. #137.]

Software Forum (formerly SEF) Client/Server SIG. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Patrick O'Brien, (415)726-4664. [Exp. #141.]

NEXT

BANG—Bay Area NeXTStep Group. Meetings: 3rd Thurs., 7:00 pm, Stanford Linear Accelerator Center, 2725 Sand Hill Rd., Menlo Park. For NeXTStep/OpenStep users, technical support questions, demos, development tips. Call: Mike Gabrys, (415)327-BANG; email: *info@bang.org*; World Wide Web: *http://www.bang.org/* . [Exp. #142.]

NOVELL

Novell User Group Of Monterey. Meetings: 3rd Thurs., 40 Ragsdale Dr. in Ryan Ranch off Hwy 68. Call: (408)645-2475. [Exp. #140.]

OS/2

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:30 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Call: (510)945-7565 ext. 611. [Exp. #138.]

PARADOX

bapals (Bay Area Paradox User Group). Meetings: 4th Tues., 5:00 pm, 799 Market St., 8th Floor, San Francisco. Call: (415)995-4688. [Exp. #142.]

PEN

Software Forum (formerly SEF) Mobile/Wireless Computing SIG. Meetings: 4th Wed., 7:00 pm, Cubberley Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Dick Roistacher, (415)591-8236. [Exp. #141.]

Stanford Newton User Group. Meetings: 2nd & 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Call: Flash Sheridan, (415)462-9203 or *FlaSheridn@rahul.net* . [Exp. #139.]

PROGRAMMING LANGUAGES

BMUG Forth SIG. Meetings: 2nd Sat., 12:00 pm, BMUG office, 2055 Center St., Berkeley. Forth for beginners, 12 noon; introductions, 1:00 pm; talks and demos 1:30–5:00 pm. Call: Leonard, (510)376-5241. [Exp. #137.]

BMUG Programmers' SIG. Meetings: alternate Weds., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Mac Toolbox, C, and Pascal. Call: (510)549-BMUG. [Exp. #137.]

Software Forum (formerly SEF) C/C++ SIG. Meetings: 4th Fri., 6:15 pm, UC Santa Cruz Extension, Oxford Business Park, 3120 De La Cruz Blvd. (Trimble at 101), Santa Clara. $10. Call: Marian Corcoran, (408)973-1662. [Exp. #141.]

Software Forum (formerly SEF) Visual BASIC SIG. Meetings: 2nd Thurs., 7:00 pm, Cubberley Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. Free tutorial 6:00 pm. $10. Call: Alan Colby, (415)851-4567. [Exp. #142.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Call: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #140.]

PROJECT MANAGEMENT

Microsoft Project Users Group. Meetings: 3rd Tues., alternates between San Jose and Foster City. Q&A, speakers, product demos, and other topics related to Microsoft Project and project management. Call: Jim Spiller, (707)425-2484. [Exp. #137.]

SILICON GRAPHICS

Bay Area Silicon Graphics Users Group—BASGUG. Meetings: 3rd Tues., 7:00 pm, SF Academy of Art College SGI Lab, 79 New Montgomery St. at Mission, San Francisco. Dedicated to providing advanced information and education for SGI systems. Call: Doug Cain, (415)346-6150. [Exp. #140.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Call: Fred, (510)530-8335. [Exp. #138.]

UNIX

AT&T UNIX Computer Users Group. Call: Thad Floryan, (415)961-5157. [Exp. #142.]

Software Forum (formerly SEF) UniForum Open Systems SIG. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Call: George Bosworth, (415)851-3304. [Exp. #141.]

VIRTUAL REALITY

Virtual Valley, The Silicon Valley And South Bay Virtual Reality Users' Group. Meetings: every two months, next meeting June 15. Fun, information, networking, job leads, technical demos, speakers. $5 to attend. Call: Cleopatra Alfenito, (415)824-2536 or email: *virtual_valley_admin@gravity.com* . [Exp. #142.]

WINDOWS

BMUG Windows SIG. Meetings: 1st Tues., 6:30 pm, BMUG office, 2055 Center St., Berkeley. Call: Robin, (510)527-8993. [Exp. #137.]

Software Forum (formerly SEF) Windows SIG. Meetings: 1st Wed., 7:00 pm, Cubberley Community Center, Room H-1, 4000 Middlefield Rd., Palo Alto. $15. Call: Fran Finnegan, (415)288-4400. [Exp. #142.]

Is Your Listing Missing?

Free user group and association listings are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

Free BBS listings are limited to the board's name, phone number, hours, baud rates, parameters, and a ten-word description. Please let our readers know if your BBS is free or requires a fee. Because we have an ongoing problem of boards shutting down without telling us, much to the annoyance of would-be callers and the new phone number's owner alike, we will **delete these listings after they've run three months.** The notice at the end of the listing—Exp. #xxx—refers to the last issue number it will appear in unless renewed.

You can update or renew your listings at any time. If yours is missing, send your listing information to:

US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: *JohnDownen@aol.com* or MCI:MICROTIMES.

ASSOCIATIONS

Association For Systems Management & Data Processing Management Association. Meetings: 1st Wed., 5:30 pm, Mountain View. Networking, dinner, speaker; $20 to $25. Call: (408)727-3906. [Exp. #142.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp. #142.]

Bay Area Video Coalition. A place for independent videomakers to communicate with each other and the larger media community. $10 for nonmembers. Call: Anne Etheridge, (415)861-3282. [Exp. #140.]

Black Data Processing Associates, Silicon Valley Chapter. Meetings: 4th Thursday, 6:30 pm, Amdahl Corp., Bldg. H, 1240 E. Arques Ave., Sunnyvale. National network of DP professionals, educators, students, and vendor reps. Call: Willie Mackey, (408)280-7624 or email: *wjmackey@bdpabac.com* . [Exp. #140.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Call: (408)365-9815. [Exp. #142.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Call: (408)494-8378. [Exp. #142.]

Computer Professionals For Social Responsibility/Berkeley Chapter. Meetings: last Sun., 3:00 pm, BMUG Offices, 2055 Center St., Berkeley. Meetings are open to the public and free. Call: Karen, (510)987-0567 or *cpsr-berkeley@cpsr.org* . [Exp. #140.]

Computer Software Industry Association. An association working to keep California safe for the software industry. Call: Kaye Caldwell, (408)479-8743 or email: *kaye@ix.netcom.com* . [Exp. #142.]

Independent Computer Consultants Association, Northern California Chapter. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Call: (415)399-0305. [Exp. #142.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Call: (415)553-2202. [Exp. #142.]

National Writers Union. Meetings: 1st Wed., location changes. Monthly meeting for professional technical writers. Call: Andreas, (415)333-0921 or email: *andreas@netcom.com* . [Exp. #140.]

North Bay Information & Technology Association. Meetings: monthly, North Bay's premier trade organization for software and information technology professionals. $20 for nonmembers. Call: 1-800-457-5570 or (415)382-1108. [Exp. #141.]

Rexx Language Association. A consortium of those who deal at some level with the Rexx language. For membership info send name and address to *pjt@wrkgrp.com* or RexxLA Membership, 6300 N. River Rd., Ste. 501, Rosemont, Ill 60018; fax (708)696-2277. [Exp. #140.]

San Francisco ACM SIGGRAPH. Meetings: 3rd Fri., 8:00 pm, Computer Arts Institute, 310 Townsend St., Suite 230, San Francisco. Computer graphics and animation across a variety of industries including film, multimedia, and video games. Call: (415)642-9605. [Exp. #138.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00, program at 6:45 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. Job listings, guest speakers, technical publications competition, newsletter. Call: (415)985-7121. [Exp. #139.]

Society For Technical Communication, Silicon Valley Chapter. Meetings: 3rd or 4th Thurs., 5:30 pm refreshments, 6:30 pm dinner, 7:15 dessert. Sunnyvale Hilton, 1250 Lakeside Dr. (off Lawrence Expressway at 101). Guest speakers, special interest groups, networking, job listings, newsletter. Call: (408)737-9426. [Exp. #137.]

Software Forum (formerly SEF). Meetings: 3rd Wed., 6:30 pm, Elk's Lodge, 4249 El Camino Real, Palo Alto. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Call: Barbara Cass, (415)854-7219. [Exp. #142.]

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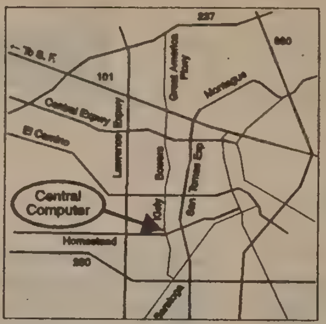

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- Germany, Sweden sales	-- Ann
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- Tech. Support	-- Edwin, Jim

SYSTEMS

Central System # 1 : 486 Green VLB

Intel 486-DX2-66 CPU
CPU Cooling Fan
4MB RAM Memory (4 of 30-pin, 70-ns Simm)
Teac 1.44MB Floppy
IDE & FD Controller & I/O (2S 1P)
Baby Tower Case w. 200W Power
Spill Resistant 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Standard Technology 14" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse

LYNX / SHUTTLE 486-DX2-66 ISA VLB	**$1095**

Special : 486 PCI

LYNX 486-DX4-100 4PCI 2VLB	**$1199**

Intel 486-DX4-100 CPU
4MB RAM (1 of 72-pin, 70-ns Simm)
* Others same as above

Central System # 2 : 486 Multimedia Tower

Intel 486-DX2-66 CPU
CPU Cooling Fan
4MB RAM Memory (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Baby Tower Case w. 200W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Standard Technology 14" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

MICRONICS 486-DX2-66 ISA 2VLB	**$1129**
MICRONICS 486-DX2-66 EISA VLB	**$1319**
AIR 486-DX2-66 ISA 3VLB	**$1139**

*** Multimedia Upgrade Options (please add):*
Panasonic 2X + SB 16 + 40W Speakers ($219)
Sony 2X + 16 bit IDE Sound Card + 4W Speakers ($185)

Central System # 3 : 486 Value Station

Intel 486-DX2-66 CPU
CPU Cooling Fan
8MB RAM (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Kelvin 64 VLB 1MB VGA Card
Viewsonic 15ES or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

AMI Super Voyager III 486-DX2-66 2VLB	**$1649**
MICRONICS 486-DX2-66 2VLB	**$1475**

*** Multimedia Upgrade Options :*
Any 2X or 4X Multimedia Kit available

Central System # 4 : Pentium IDE Station

Intel Pentium 586-90 CPU
CPU Cooling Fan
8MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Kouwell IDE & I/O (2S 1P 1G)
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB Hard Drive
Kelvin 64 PCI 1MB VGA Card
Viewsonic 15ES 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrade*

INTEL 586-90 PCI (Triton)	**$1915**
SUPER P54CT Green 4PCI	**$1825**
MICRONIC 586-90 3PCI , built-in IDE	**$1925**

*** Multimedia Upgrade Option (please add) :*
Teac 4X IDE + SB 16 + Mini Speakers ($265)

Central System # 5 : Pentium SCSI Station

Intel Pentium 586-90 CPU
CPU Cooling Fan
8MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Adaptec 1522A SCSI Board
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Quantum MV-540A 540M SCSI Hard Drive
Kelvin 64 PCI 1MB VGA Card
Viewsonic 15ES 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrade*

MICRONIC M54PI 586-90 3PCI	**$2059**
INTEL 586-90 PCI (Triton)	**$2049**
SUPER P55CWA PCI (Triton)	**$2025**

*** Multimedia Upgrade Option (please add) :*
Sanyo 4X SCSI + SB 16 SCSI + 40W Speakers ($355)

Central System #6 : Pentium CAD Station

Intel Pentium 586-90 CPU
CPU Cooling Fan
16MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 1.2GB IDE Hard Drive
Diamond Stealth 64 2MB DRAM PCI Card
Mag DX15 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

AMI Atlas 586-90 4PCI	**$2665**
MICRONICS 586-90 3PCI	**$2599**

*** Multimedia Upgrade Options :*
Any 2X or 4X Multimedia Kit available

For MICROSOFT DOS 6.22 & WINDOWS 3.11, add $79

All systems are upgradable (memory, HD, VGA, monitor, keyboard . . .) for the price difference.

HARDWARE

1. CD DRIVE & SOUND CARD

CREATIVE LABS

CD 531 w. Kit Ext.	*(99)
Digital School House CD Kit Int w. 20 titles	*(269)
Discovery 16 CD Kit w. 18 titles (new)	275
Edutainment CD 16 Int w. 42 titles	385
Midi Kit + Software	65
Sound Blaster Pro Value Edition	75
Sound Blaster 16 Basic / IDE (Vibra)	75/85
SB 16 MCD oem / reg	84/125
SB 16 MCD w. ASP oem / reg	118/165
SB 16 SCSI-2 oem / reg / w. ASP	119/157/179
Sound Blaster AWE 32 VE / w. ASP	225/265
Sound Blaster Multimedia Office Kit	*(499)
Video Blaster MP-400	245

CHINON

CDS-525 280ms, 300Kb/s, 2X SCSI Int.	169

DIAMOND

1000 Multimedia Kit w. 30 titles	295
4000 4 Speed Multimedia Kit w. 11 titles	309
5000 4 Speed Multimedia Kit w. 30 titles	399

MEDIA VISION

MV1100 Deluxe Multimedia Kit 2X Int	229
MV0400SE Premium Portable Ext	299
MV2100 Family Kit / MV3100 Super Kit	279/339
MV4100 Premium Deluxe Kit	499
Premium 3D 16 SCSI-2 Sound Card	139
Pro 3D 16 SCSI-2 Sound Card	245
Pro 16 Multimedia System II SCSI	*(329)

MITSUMI

FX400 230ms, 600Kb/s, IDE 4 Speed Int	189

NEC

3XP Plus Portable, Triple Speed	389
4XI 220ms, 600Kb/s, 4 Speed Int	379
4XE 220ms, 600Kb/s, 4 Speed Ext	479

PIONEER

4 Speed, 150ms, 614Kb/s, IDE Int	195

PLEXTOR

PX-43CH 220ms, 600Kb/s, 4 Speed Int	389
PX-63CS 145ms, 900Kb/s, 6 Speed Int	535

SANYO (Concord)

CDR-H93 66ms, 600Kb/s, 4X SCSI-2	215

SONY

CDU-55E Double Speed IDE	119
- w. IDE Sound Card & Speakers	185
CDU-55S Double Speed SCSI	189

TEAC

CD55A 195ms, 4X IDE, Int / w. Kit	179/249
CF506A Quad CD + 1.44 FD	209

TOSHIBA

3601B 150ms, 600Kb/s, 4 Speed Int	289
Crystalake : 4X Toshiba 5302 w. Kit + 3CD	215

TURTLE BEACH

Monte Carlo Game Card	95
Monterey Multisound	329
Tropez Sound Card	225

OTHERS

16 bit IDE Sound Card	59
Adaptec Audio Edge	199
Adventure Multimedia 4X Upgrade Kit	335
CD Pop-Out Storage Case (holds 30 CDs)	19.99
Family Library Multimedia 4X Upgrade Kit	329
Gravis Ultrasound / Max 32 Voice.	*(119)/175
JVC CD Writer (w. Adaptec, cable, software)	
- 2 Speed Int / Ext	1875/2050
- 4 Speed Ext	4165
Panasonic CR-562 + SB16 + Speakers	199
SIIG Play Computer Games On TV	149
Wav Jammer 16 bit Stereo PCMCIA	275
Speakers :	
Active 75 (80W) / Active SP-690	49/35
Altec ACS50 / ACS150 / ACS300.1	67/95/225
EP-88 (80W) / EP-120 (120W)	42/65
EP-280 (40W) / Mini Speakers (4W)	29/7.99

2. CASE

Baby AT w. 200W Power	59
Baby Tower w. 200W Power	59
Mid Tower w. 230W Power	75
Mid Tower w. Side Door Open, 230W Power	79
Mid Tower w. 250W Power : Black / White	139/129
Full Tower w. 250W Power	119
Full Tower w. 300W Power : Black / White	199/189
Slim w. 130W Power (2 drive bay)	75
Hard Disk Drive External Casing	
- 2 half ht or 1 full ht for PC, 60W	95
- 2 half ht or 1 full ht for Mac, 60W, w. cables	115

ANTEC

CD Rom or 5.25" External Casing	65

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3.5" HD External Casing	59
KS-010+RPP3002 : 12 Bay File Server 12 Slots, 300W Hot-Swap + Redundant P/S, 2 Cooling Fan	559
KS-010+RPT600 : 12 Bay File Server 12 Slots, 300W Redundant Vertical AT P/S, 2 Cooling Fan	439
KS-022+RPP3002 : 8 Bay Tower Case 12 Slots, 300W Hot-Swap + Redundant P/S	399
KS-022+RPT600 : 8 Bay File Server 12 Slots, 300W Hot-Swap + Redundant P/S	279

3. CONTROLLER

ADAPTEC

1515 16 bit Controller w. Kit	89
1522A Fast SCSI Board, 3Mb/s / w. Kit	85/145
1542CF SCSI Board, 10Mb/s / w. Kit	175/239
2742AT SCSI EISA w. Kit	365
2842AK SCSI VLB w. Kit	239
2940 SCSI PCI w. Kit oem / reg.	239/289
2940W Wide-SCSI PCI Kit w. wide int cable	299
APA1460 Slim PCMCIA SCSI	229
ASW-EZ SCSI 3.1 for Dos & Windows	69
T348K Parallel to SCSI Adapter	129
T358K EPP Parallel to SCSI Adapter	179

BUSLOGIC

KT410A IDE Cache VLB	135
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT747C Fast SCSI-2 EISA w. Kit	365
KT910A IDE Cache PCI w. Kit	179
KT946C SCSI PCI w. Kit (supports 8GB HD)	269

COREL

Corel SCSI Software v2.0	85

DTC

2278VL IDE w. I/O VLB, 32 bit	35

FUTURE DOMAIN (SCSI)

TMC-1660 for AT (HD only)	119
TMC-1660 SVP (SCSI Value Pack)	127
TMC-1680 for AT (4FD & HD) / SVP	129/139
TMC-3260 PCI / SVP	129/165

KOUWELL

IDE only / PCI IDE Controller	24/29
IDE w. AT I/O (2S 1P 1G)	27
IDE w. AT I/O (2S 1P 1G) & 16550 & 2.88	49
IDE w. AT I/O (2S 1P 1G) VLB & 16550 chips	49
Enhanced IDE/ 4HD/ FD/ 2S 1P/ VLB	35
Enhanced IDE/ 2S 1P/ 16550	59
Enhanced IDE PCI	33

NEW MEDIA

PCMCIA Bustoaster SCSI	215
PCMCIA Bustoaster SCSI-2	219

PROMISE (drive cache)

DC-4030VL IDE VLB, cache up to 16MB	105
DC-5030 IDE PCI	129
EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550	59

QLOGIC

Fast SCSI 16 bit (all SCSI CD Rom)	55
Fast SCSI EISA w. Kit	199
Fast SCSI VLB w. Kit	189
Fast SCSI PCMCIA	199
Fast SCSI PCI w. Kit	249
Wide SCSI PCI w. Kit	299

VITEX

IDE w. 4FD/ 2S 1P/ 16550 chips	45
IDE w. 4FD/ 4S 2P 1G/ 2S16550/ VLB	89
Enhanced IDE/ 4HD/ 2FD/ 2S 1P 1G/ VLB	35
Enhanced IDE/ 4HD/ 2S 1P/ VLB/ 16550	55

WONDER SYSTEM

IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	35
IDE 2HD/ 4FD / 2S 1P / 16550	45
IFSP2 IDE w. 4FD/ 3S 2P 1G/ 2S16550	69
SCSI w. CD Rom Drivers 16 bit	49
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	55

OTHERS

ACCULOGIC IDE PCI Controller	49
ASUS SC200 SCSI-2 PCI (w. NCR chips)	85
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29

4. CPU & MATH CO

CPU :

AMD

386 DX-40	59
486-DX2-66 / DX2-80	159/169
486-DX4-100	209

CYRIX

486 DX-33	119

INTEL

386 DX-33 / DX-40	45/45
486 DX-33	129
486 DX2-50 / DX2-66	169/179
486 DX4-100	269
Pentium 586-60 / 66	279/329
Pentium 586-75 / 90	369/429
Pentium 586-100	539

Math Co Processor :

CYRIX

83D87 - 33	35

INTEL

387 DX (for 16/ 20/ 25/ 33 MHz)	85
387 SX (for 16/ 20/ 25/ 33 MHz)	79

ULSI

83D87 - 40	35

OTHERS

Cooling Fan for 486 CPU	6.95
Cooling Fan for Pentium 586	15

5. DIGITIZER

SUMMASKETCH

III 12 x 12, 4 or 16 button	*(249)269
III 12 x 18, 4 or 16 button	549
FX 12 x 12, w. 3-button Pressure Stylus	375

WACOM

KT-0405R 4 x 5, Art Pad	155
KT-0405R with Fractal Dabler	185
UD-0608R 6 x 8, w. UP-201 Pressure Stylus	345
UD-1212RP 12 x 12, w. UP-201 Pres. Stylus	529
UP-201 Pressure Stylus	49.95

6. DRIVE

FLOPPY DRIVES :

TEAC

1.2MB 5.25"	46
1.44MB 3.5" / w. frame / Black	36/40/47
Dual - 1.2MB & 1.44MB	89

HARD DRIVES :

CONNER

CFS-270A 14ms IDE	155
CFS-425A 420MB 14ms IDE 1" ht	165
CFS-540A 540MB 14ms 32k IDE 1" ht	185
CFA-850A 850MB 12ms 256k IDE 1" ht	265
CFP-1080S 1.08GB 11ms 256k SCSI-2	475
CFA-1275A 1.2GB 12ms 256k IDE 1" ht	399
CFP-2105S 2.1GB 10ms 1/2 ht	965

FUJITSU (2 yr. warranty)

M2684TAU 540MB 12ms IDE 1" ht	195
M2684SAU 540MB 12ms SCSI 1" ht	215

MAXTOR

MXT-7345 340MB 14ms IDE	155
MXT-7425AV 420MB 12ms 32k IDE	165
MXT-7540AV 540MB 14ms 64k IDE	185
MXT-7850A 850MB 12ms 32k IDE	239
MXT-71260A 1.2GB 12ms 256k IDE	389
Optical Rewritable 1.3GB 19ms SCSI, 4MB Ext. Tahiti III MXO-9410000 Drive only	2175
1GB Glass Cart. MXO-2015382 512k sector	165
1GB Plastic Cart. MXO-2015383 512k sector	135

MICROPOLIS

MC-4221 2.1GB 8.5ms 512k 1" ht	1045
MC-1936 3.0GB 11ms 256k SCSI full ht	1455
MC-1936AV 3.0GB Audio Visual	1495
MC-3243 4GB 8.5ms 512k 3.5" ht	1995

NEW MEDIA

PCMCIA 105MB IDE	419
PCMCIA 170MB IDE	489
PCMCIA 260MB IDE	589

QUANTUM

LPS-270S 270MB 12ms 128k SCSI	175
LT-540A 540MB 11ms 128k IDE	199
LT-540S 540MB 11ms 128k SCSI-2	219
MV-540A 540MB 14ms 128k IDE	185
MV-540S 540MB 14ms 128k SCSI	205
LT-730A 730MB 11ms 128k IDE	235
LT-730S 730MB 11ms 128k SCSI	279
XP-32150 2GB 8ms 1MB SCSI-2	895-

SEAGATE

ST3491A 420MB 14ms 128k IDE	165
ST-3660A 540MB 14ms 128k IDE 1"ht	185
ST-3780A 720MB 12ms 256k IDE	235
ST-31220A 1.08GB 12ms 256k IDE	385
ST-31230N 1.05GB 9ms 512k SCSI-2	559
ST-32430N 2.14GB 9ms 512k Fast SCSI	975
ST-32550N 2.14GB 8ms 512k SCSI-2	1025
ST-12550W 2.14GB Fast-wide SCSI	1265
ST-43400N 2.9GB 10ms 512k SCSI-2	1895
ST-15230N 4.3GB 9ms 512k SCSI	1895
ST-410800N 9.0GB 11.5ms 1M SCSI	3665

WESTERN DIGITAL (3 yr. warranty)

WD-2540 540MB 12ms 128k IDE	219
WD-2850 850MB 10ms 128k IDE	275
WD-31000 1.0GB 10ms 128k IDE	379
WD-31200 1.2GB 11ms 128k IDE	399

REMOVABLE DRIVES :

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105MB 3.5" w. cart, IDE host adapter	279
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105MB 3.5" w. cart, SCSI for Mac, Ext.	389
200MB 3.5" w. cart, SCSI Ext	479
270MB 3.5" w. cartridge, IDE, Int	455
270MB 3.5" w. cartridge, SCSI, Ext	479
270MB 3.5" w. cart, printer port for PC, Ext.	479
105MB Cartridge / 270MB Cartridge	59/69
Syquest 270MB 3.5" w. cart, IDE Int	475
Syquest 270MB 3.5" w. cart, SCSI Ext	519

ZIP DRIVES :

IOMEGA

100 MB Parallel / SCSI	199/199

OTHERS

Impression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	5/5
Removable Case for 3.5" HD IDE / SCSI	39/42

7. I/O CARD

KOUWELL

AT I/O (2S 1P) / AT I/O (2S 2P)	25/29
AT I/O (2S 1P 1G) / w. 16550 chips	25/42
Printer Card	15
Serial Card (XT, AT)	15

QUICKPATH

13 Port I/O w. 4-16550UARTs + Extd. IRQs (2IDE, 4F, 4S, 2P, 1G)	125
4 Serial, 16550UARTs, 8addr, 10IRQs (3,4,5,7,9,10,11,12,14,15)	99

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	45

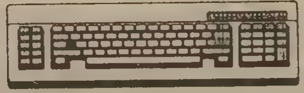
STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	109

VITEX

AT I/O (2S 2P) w. 16550 chips	45

8. KEYBOARD



FOCUS

FK2001 101 Click	42
FK9000 129 Key Programmable	53

MICROSOFT

Natural Keyboard	95

NORTHGATE OMNI (5 yr. warranty)

101NI / 102	*(65)/*(65)
Ultra T / Ultra F	*(89)95

SIIG (5 yr. warranty)

Minitouch	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39

OTHERS

Ancer 101 Key (black)	42
BTC 84 Key Mini	35
Keytronic 101	35
Maxi 101 / Maxi 124	35/53
Mitsumi 101	29
Spill -resistant 101 Key	19.50
Unikey Natural Ergonomic Keyboard	45

9. MEMORY

DRAM

256k x 4 - 80ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns	(1MB)	41/40/39
4 x 9 - 60ns / 70ns	(4MB)	165/159
16 x 9 - 70ns	(16MB)	609
256k x 9 - 70ns		12
1 x 36 - 60ns / 70ns	(4MB , 72 pin)	175/165
2 x 36 - 60ns / 70ns	(8MB , 72 pin)	345/335
4 x 36 - 60ns / 70ns	(16MB, 72 pin)	619/609
8 x 36 - 60ns	(32MB, 72 pin)	1229

SIPP

1MB x 9 - 70ns (3 chips)	42

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	*call*

10. MODEM & FAX

BOCA

14.4 Fax Int / Ext	*(89/105)
14.4 Pocket Fax	169
14.4 VSP Sound Express Fax Modem	*(155)
28.8 Fax Modem v.34 Int / Ext	*(165/199)

COMPUTER PERIPHERAL

14.4 Fax Modem Voice	89

GVC (Maxtech)

14.4 Fax Ext	89
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99

HAYES

Accura 144 + Fax Int / Ext	*(99/119)
Accura 28.8/14.4 v.34 Modem Ext	229
ESP Communication : Single / Dual port	85/125
Optima 288 v.34 Fax Ext	445

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	185
PCMCIA XJ2144 Fax (MNP10)	219
PCMCIA CC3288 Fax	355

MICROCOM

Deskporte 28.8S V.34 Fax Ext	189
Deskporte EP 28.8 v. Fast Ext / v.34 Ext	225/239

PRACTICAL PERIPHERALS

PM144FX144 Int / Mini Tower Ext	99/119
28.8 v.34 Fax Int, 230K DTE	269
28.8 v.34 Ext (PC288LCD)	359
28.8 v.34 Int (PM288) / Mini Tower	209/225

SHIVA

Net modem/E Ethernet BNC/TP	1475

US ROBOTICS

Courier V.34 28.8/14.4 Fax Int / Ext	395/425
Sportster 144/144 Fax MNP5 Int / Ext	99/119
Sportster 144/144 for Mac Ext	149
Sportster V.34 28.8/14.4 Fax Int / Ext	225/235
Sportster V.34 28.8/14.4 Fax for MAC	259
Sportster PCMCIA Fax 144 / 288	185/365

ZOOM (7 yr. warranty)

144/144 Fax Modem & Voice Int / Ext	139/169
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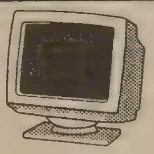
ZY-XEL

U1496B 16.8 Voice 14.4 Fax w. Software Int	289
U1496B+ upgradable to 19.2Kbps Int	397
U1496E 16.8 Voice 14.4 Fax, LED Ext	299
U1496E+ upgradable to 19.2Kbps Ext	399

OTHERS

CommShare 550 Phone & Fax auto-switch	75
CommShare 750 4 Port Switching	99
Intel Plus/OCR 2.0	*(45)
National Semiconductor TyIN 2000 Int	*(75)
SIIG TeleCommunicator 10-in-1 Fax	219
14.4 Fax modem Int	59

11. MONITOR



ACER VIEW

AV34T 14" 1024 x 768 .28 NI	239
AV56L 15" Flat 1280 x 1024 .28 NI	349
AV76i 17" Flat 1280 x 1024 .27 NI	629

EYE Q

SM1411 14" Flat Mono Amber Paper White	85
M447AU 14" 1024 x 768 .28 NI	249

HITACHI

CM1586MU 15" Flat 1280 x 1024 .28 NI	369
CM1797M 17" Flat 1600 x 1200 66Hz .26 NI	975

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	745

LIYAMA (IDEK)

MF-8115 15" 1280 x 1024 .28	415
MF-8617A 17" 1280 x 1024 .26 NI	769
MF-8621 21" 1600 x 1200 .26	2235
MT-9121 21" 1600 x 1200 .30	1895

MAG (auto switch power)

DX15FE 15" 1280 x 1024 .28 NI (no LED)	375
DX17F 17" 1280 x 1024 .26 NI (no LED)	689
MXP17F 17" Flat 1600 x 1280 .26 NI	915

MITAC (3 yr. warranty)

M1564 15" 1280 x 1024 .28 NI	325
M1775 17" 1280 x 1024 .28 NI	599

NANAO

F2.15 15" Flat 1024 x 768 .28 NI	549
F550iW 17" 1280 x 1024 .28 NI	*(849)979
F2.17EX 17" 1600 x 1200 .26 NI	959
T2.17 17" 1280 x 1024 .25 NI	1285
T2.20 20" 1600 x 1280 .30 NI	1955
F780iW 21" 1600 x 1280 .26 NI	2995

NEC

XV14 14" 1024 x 768 .28	335
4FGe 15" Flat 1024 x 768 .28 NI	*(599)
XE15 15" 1024 x 768 .28	549
XP15 15" 1024 x 768 .28 NI	655
XV15 15" 1024 x 768 .28	439
XE17 17" 1024 x 768 .28 NI	985
XP17 17" 1280 x 1024 .28 NI	1249
XV17 17" 1024 x 768 .28 NI	789
6FGp 21" 1280 x 1024 NI	1995
XE21 21" 1280 x 1024 .28 NI	1995
XP21 21" 1600 x 1200 .28 NI	2449

NOKIA

449E 15" 1280 x 1024 .28 NI	*(425)499
447L 17" 1024 x 768 .28 NI	749
447X-058 17" 1600 x 1280 .25 NI	1049
447X 17" 1600 x 1280 .25 NI TCO	1175
445X 21" 1600 x 1280 .26 TCO	2485

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	249
1500D 14" 1280 x 1024 .28 NI	349

2000DC 15" 1280 x 1024 .27 NI	399
4000TC 17" 1280 x 1024 .25 Trinitron NI	799

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	*(689)749

PRESIDENT

GV-4148S 1024 x 768 .28 NI	225

PROTON

GM1449A 14" 1024 x 768 .28 NI	245
GM1563 15" 1280 x 1024 .28 NI	345
GM1563B 15" 1280 x 1024 Black	359
PM1561A 15" 1280 x 1024 w. speakers built-in	345

SONY

1425 14" 1024 x 768 .25	335
15SF 15" 1280 x 1024 .25 NI	479
17SE 17" 1600 x 1280 .25 NI w. After Dark	989
17SF 17" 1280 x 1024 .25	869
20SE 20" 1280 x 1024 .30 NI	1835

STANDARD TECHNOLOGIES

428-VESA 14" 1280 x 1024 .28 NI	249

TATUNG

20" Analog 1280 x 1024 .31	755

VIEWMAGIC

10" SVGA Mono Paper White 1024 x 768	129

VIEWSONIC

6E 14" 1024 x 768 .28 NI	275
15 15" Flat 1280 x 1024 .28 NI	449
15ES 15" 1024 x 768 .28 NI, MacII	365
17 17" 1600 x 1280 .27 NI, MacII	849
17GS 17" 1280 x 1024 .27 NI	789
20PS 20" 1600 x 1280 .28 NI, MacII	1449
21PS 21" 1600 x 1280 .26 NI, MacII	1669

12. MOTHERBOARD

AIR (w/o cpu)

486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O	179
486EI : 486-33 / DX2-66 256k, EISA, 3VLB	349
586-90 256k, EISA, Adaptec SCSI, Floppy, IDE I/O	659
586-90 256k, EISA, Adaptec SCSI, Floppy, dual processor, w. I/O built-in	769
586-90 256k, ISA PCI VLB, w. I/O built-in	379

AMI (w/o cpu)

Super Voyager III 486-DX2-66 VLB, 7 slots	329
Enterprise IV 486-DX2-66 256k EISA VLB	445
Atlas 586-90MHz PCI 256k w. IDE I/O	435
Titan II 586-90 256k EISA, dual processor	985

ASUS (w/o cpu)

486-DX2-66 256k VLB	139
486-DX2-66 256k PCI, built-in IDE+SCSI I/O	275
P54TP4 586-90 256k PCI (Triton)	349
586-90 / 100 256k PCI EISA, dual processor	779

IBM (Path)

486SLC-66 VLB 128k w. CPU & Math Proc	175

INTEL (w/o cpu)

586-90MHz 256k PCI, built-in IDE I/O	329
586-100Mhz 256k PCI, built-in IDE I/O	349
Pentium ZP ED w. Triton Chipset	345

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC	135
486-DX4-100 256k PCI/ VLB	159

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	79
486-33 / DX2-66 256k VLB	179
JX3WB 486-DX2-66 256k VLB w. write-back cache	249
486-33 / DX2-66 256k EISA VLB	365
486-33 / DX2-66 256k EISA-3	285
M54PI 586-90 w. IDE I/O (Neptune)	365

SHUTTLE (w/o cpu)

486-DX2-66 256k 3VLB slots, Green PC	135
486-DX2-66 256k EISA 3VLB slots	239

SUPER (w/o cpu)

P54CT 586-90 / 100 256k PCI VLB	259
P54Ci 586-90 / 100 256k PCI, built-in IDE	259
P55CWA 586-90 / 100 256k PCI (Triton)	329

TIGER V

586-90MHz 256k PCI	249

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	85
First Serial	31
Fotoman Plus Camera for PC & PS/2	549
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem	32
Trackman II / Trackman Portable	75/49
Wingman Standard / Extreme	29.95/47

MICROSOFT (USA made)

Bus 2.0 400dpi oem / w. Bus Card	43/65
Bus 2.0 w. Expansion Card	79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem : gray / white	29/35

MOUSE SYSTEMS

Altes Mouse	9.95
Cobra (joystick)	9.95
Mousel Serial w. Pad	19
PC Mouse (3-button optical)	39.50
PC Trackball II	45
ProAgio (5-button serial)	48
Serial Bus Card (9IRQs)	29

JOYSTICK :

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
Flight Control System MK II / w. Falcon	75/87
Flight Control System Pro	119
Formula T1 / w. Indy Car	125/139
Rudder Control	118
Weapon Control MKII	109
UPROM	29.95
XL Action	35

OTHERS

Analog Plus (by Sun Comm)	*(19.99)
Dexxa Serial Mouse	19.50
Gravis Analog Pro	29
Gravis PC Gamepad	19.95
Quickshot Smart Game Card	16.50
Color Mickey Mouse Pad	5.99
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Walt Disney Mouse Pad	4.99

14. NETWORK

3COM

3C503 Etherlink II 16 bit coax / TP	165/175
3C509 Etherlink III coax oem / reg	89/118
- 5 Pack oem / reg	445/529
3C509 Etherlink III TP+AUI oem / reg	*(75)/115
- 5 Pack oem / reg	*(365)/499
3C509 Etherlink III Combo oem / reg	99/129
- 5 Pack oem / reg	*(465/469)
3C509 Etherlink III TPO / 5 pack	*(69)/*(345)449
3C579 Etherlink III EISA coax / TP	228/229
3C589 PCMCIA TP / Combo	169/215
3C590 PCI TPO / Combo	135/165
3C590 PCI TPO 5-Pack	*(539)
3C595-TX PCI 10/100 TP	234
3C16170 Link Builder (12TP)	345
Transcend Link Builder FMS Management	350

ADDTRON

HUB: UTP8/L (8TP +BNC + AUI)	139
HUB: UTP16/L (16TP + BNC + AUI)	265
HUB: UTP16 (16TP+BNC+AUI) RackMount	365
Pocket Adapter BNC	*(99)115
Transceivers: ET10TB (TP<->AUI)	37
Transceivers: ET10CB (BNC<->AUI)	37

ALLIED TELESIS (CentreCOM)

Transceivers: MX10 (AUI - BNC)	39
Transceivers: 210T (AUI - TP)	39

ARTISOFT (Lantastic)

Articom	*(99)
Central Station Netware / Central Station II	349/399
Corstream Server 5-user (8340)	*(499)
HUB: 8 Port (8TP + BNC)	189
HUB: 12 Port (12TP + BNC)	225
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit coax 2-user	*(235)
Lantastic 6.0 Add On NR-SI 2000C	*(115) ea.

- or ** Buy 2 Get 1 Free ** or ** 3 for $230 **

Lantastic 6.0 Add On NR-SI 2000T	125
Lantastic 6.0 Software single user	75
- 6.0 for 5-user / 10-user	339/599
- upgrade for single / for 5-user	39/*(99)
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
NR-SI 2000C coax / 5 pk / 10 pk	79/375/685
NR-SI 2000T TP / 5 pk / 10 pk	84/379/689
NR-SI 2000A Combo	99
Remote Boot ROM for NR2000	45

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	189
10T HUB 12 Port (12TP + 1BNC + 1AUI)	369
FriendlyNet with AUI / BNC / TP	69

BOCA

HUB : 8 Port TP only / 16 Port TP only	139/269
LAN Card : ISA TP / ISA Combo	59/69
LAN Card : VLB TP	75
PCI 32 bit Ethernet Combo	89
PCMCIA 10BT Ethernet	169

CASTELLE

JetPress MIO TP (network printer server)	389
JetPress XIO coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CNet (Advanced Network)

200E+ coax / 600E+ TP	39/35
650E+ Jumperless Combo	45
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Repeater coax	199
5250 Emulation for PC / for PS/2	199/235
8000TPC HUB: 12 Port Stackable	299
8800TPC HUB: (8TP + BNC)	*(99)135
8816TPC HUB: (16TP + BNC)	*(225)255
8900TPC 12 Port SMNP Slave HUB	465
8910TPC 12 Port SMNP Master HUB	775

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	229
EM400 PCI Quarlet Fast (4UTP)	1095
EM525 Ethernet 16 Combo	*(75)
EM595TP Ethernet PCMCIA UTP	199
EM932 EISA 32 bit coax / TP	238/239
EM960 32 PCI Full Duplex TP / Combo	135/159
EM964TP 32 PCI 4-Port Full Duplex TP	495

DANPEX

ArcNet Products	call
1616i SNMP Intelligent 16port Hub	635
1616M SNMP Manageable 16port Hub	395
6200P2 PCMCIA BNC+TP	115
7000P3 32bit VLB Combo	79
9400P3 32bit PCI Combo	85
ET-510 UTP to AUI Translator	107
ET-590 UTP to BNC Translator	109
PrintMate PM-NW (for Netware)	269
PrintMate PM-TCP (for SUN, UNIX)	279
Token Ring Products	call

HP (Hewlett Packard)

Advanced Stack 12 Port HUB	599
- with SMNP	895
Advanced Stack 24 Port HUB	999
- with SMNP	1329
Jet Direct J2550A TP	315
Jet Direct J2552A Combo	375

IBM

Ether 16 coax / TP / Combo	69/69/79

INTEL

EtherExpress 32 Flash EISA Combo	229
EtherExpress PRO/100 PILA 8465 PCI TP	*(195)

EtherExpress Pro 8/16 bit cards :

- PCLA 8200 BNC + AUI + TP	129
- PCLA 8200 5 pack	559
- PCLA 8210 BNC + TP oem / reg	88/115
- PCLA 8210 5 pack	499
- PCLA 8220 TP oem / reg	74/*(99)
- PCLA 8220 5 pack	469
- PCLA 8205 Flash BNC+AUI+TP	139
- PCLA 8205 5 pack	599
- PCLA 8215 Flash BNC + TP / 5 pk	125/549
- PCLA 8225 Flash TP / 5 pk	119/499
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
MCLA 8120 MCA TP	175
Netport II Thin & Thick	395
Netport II 10BT	399
Netport Express XL	465
NetSatisfaxtion 3.01 for Novell 25-user	755

LANPRO

2000RC 16 bit BNC only	39
2000JT 16 bit TP	35
2000RAL 16 bit Combo	45
EP3020A Pocket Combo	115
HUB : 8 Port (8TP + BNC)	139
HUB : 16 Port (17TP + BNC + AUI)	255
Personal Netware coax Starter Kit	139

MICRODYNE

Eagle NE3210 EISA 32 bit Combo	189
NE2000+ coax / 5 pack	*(79/349)
NE2000+ TP / 5 pack	75/329
NE2000+ Combo / 5 pack	*(85/389)
NE3200 EISA coax / TP	450/450
Synchronous .35 WAN Adapter	869

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ coax / 5 pack	*(75)/339
InfoMover NE2000+ TP / 5 pack	*(69)/299
InfoMover NE2000+ Combo / 5 pack	*(89)/415
InfoMover NE4100 PCMCIA coax / TP	175/179

NOVELL

Dos 7 (w. Personal Netware) oem / reg	45/55
Lan Workplace 4.2 single / 10-user	275/1295
Netware 3.12	
- 5 / 10 / 25-user oem	525/1155/1825
- 5 / 10 / 25-user reg	*(595/1375/2095)
Netware 4.1	
- 5 / 10 / 25-user oem	560/1195/1895
- 5 / 10 / 25-user reg	695/1495/2195
- 50 / 100 / 250-user	3195/4395/7495
Netware NFS v1.2C	3150
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	319
- upgrade to v2.01	155
Unixware SDK v2.0 - CD version	105

PALINDROME

Network Archivist NLM 3.1A	*(795)

SMC

8013 Plus Elite 16 coax / 6 pack	118/625
8013 Plus Elite 16 TP / 6 pack	*(99)/599
8013 Plus Elite 16 Combo / 6 pack	139/775
Elite Ultra 16 coax / 6-Pack	109/449
Elite Ultra 16 TP / 6-Pack	108/399
Elite Ultra 16 Combo / 6-Pack	119/499
Elite Ultra 32 EISA Combo	215
Ether EZ coax / TP / Combo	115/*(99)/*(115)
Etherpower PCI : TP / Combo	175/189
Etherpower PCI 10/100	219
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB: 3206TA 6 Port	185
Tiger HUB: 3212TC (12TP + BNC + AUI)	369

XIRCOM

PCMCIA CE2-10BT TP	*(169)
PCMCIA CE2-10BC Combo	*(219)
PE3-10B2 Pocket Adapter coax	*(255)
PE3-10BT Pocket Adapter TP	*(259)
PE-3 10BC Pocket Adapter Combo	*(269)

CABLES & ACCESSORIES	***call***

15. NOTEBOOK

TOSHIBA

T1960CS 486-DX2-50, 4MB RAM, 200MB HD, 1.44BM FD, Dual Scan Color	1999
T1960CT 486-DX2-50, 4MB RAM, 200MB HD, 1.44MB FD, Active Color	2099
T1960CT 486-DX2-50, 4MB RAM, 320MB HD, 1.44MB FD, Active Color	2259
T3600CT 486-DX2-50 8MB RAM, 500MB HD, 1.44MB FD, Acitve Color	3399
T4700CT 486-DX2-50, 8MB RAM, 200MB HD, 1.44MB FD, Active Color	2999
T4700CT 486-DX2-50, 8MB RAM, 320MB HD, 1.44MB FD, Active Color	3159

OTHERS

9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), 128k, VLB, removable HD, built-in speaker & microphone :

- 486-DX2-66, 340MB (DSTN)	1845
- 486-DX2-66, 340MB (TFT)	2445
- 486-DX4-100, 340MB (DSTN)	1995
- 486-DX4-100, 340MB (TFT)	2595

16. POWER SUPPLY

AMERICAN POWER CONVERSION

APC-400 Smart-UPS (286, 386 WS)	289
APC-600 Smart-UPS (386, 486 FS)	359
APC-900 Smart-UPS (386, 486, FS & WS)	515
APC-1250 Smart-UPS (multiple FS & WS)	639
APC-2000-2 Smart-UPS	1150
APC-280 Back-UPS (200W)	108
APC-400 Back-UPS (300W)	165
APC-450 Back-UPS (325W)	199
APC-600 Back-UPS (425W)	269
APC-900 Back-UPS (650W)	375
Back-UPS Pro APC-280	155
Back-UPS Pro APC-420	225
Back-UPS Pro APC-650	295
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69

PC POWER COOLING

Silencer Slim 205	99
Standard 230	
- for Desktop / Full Tower	85/85
Silencer 270	
- for Slim (baby or mid tower)	135
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	139
- for Desktop / Full Tower	169/165
Turbo Cool 450	
- for Full Tower	295
Twinpower 900 (redundant)	925

TRIPP LITE

Isobar / Isotel	call

17. PRINTER / PLOTTER

BROTHER

HJ-400 Desktop Ink Jet for PC or Mac	*(249)259
HL-630 Laser 6ppm	399
HL-641 6ppm, 1MB RAM	449
HL-645	459
HL655M for PC & MAC, 2MB RAM	599

CANON

BJ-200EX Ink Jet	239
BJC-600E Ink Jet, Color, Par. 780dpi	479
BJC-4000 Ink Jet, Color, 360dpi	359

CITIZEN

GSX-220 24 pin	179
GSX-230 Fonts & Quiet	219
GSX-240 Scalable Fonts & Quiet	285

CENTRAL
COMPUTER SYSTEMS INC.
WIDE SELECTION AT LOW PRICES

Grand Opening Soon : TEL : 415 495-5888
835 - 837 Howard Street, San Francisco CA 94103

GSX-345 24 pin, 132 column	365
Projet II Ink Jet	269

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i / color upgrade	299/46

EPSON

Stylus Color Inkjet 720dpi	*(525)

HP (Hewlett Packard w. toner)

Color Laser Jet	5495
Desk Jet 540	289
Desk Jet 660C	*(499)
Desk Jet 1200C PC, Mac	999
Desk Jet 1200C Postscript PC, Mac	1595
Laser Jet 4+ / 4M+	1399/1899
Laser Jet 4L / 4ML	529/985
Laser Jet 5P / 5MP	969/1385
Laser Jet 4Si / 4SiMX	2875/3995
Laser Jet 4V / 4MV	1895/2695
Office Jet (printer-fax-copier) 3-in-1	759
Accessories :	
- Color Kit for 540	49
- Duplex C2061A for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Lower Cassette w. Letter Tray (IIP, IIIP)	149
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript for LJ4	329
- Postscript C2013A for 4Si	575
- Toner for II, III	84
- Toner for IIP, IIP+, IIIP	76
- Toner for 4 / 4L or 4P	109/69
- Toner for 4Si / 4V	135/149

LASER MASTER

Winjet 1200 (postscript for HP4)	*(549)
Winjet 1200+ (postscript for HP4+)	*(599)

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(745)

OKIDATA

ML184T 9 pin, Par	229
ML320 9 pin, Epson compatible	325
ML380 24 pin, Epson compatible	235
ML590 24-wire	429
OL400E Laser	*(425)
OL410E Laser 4ppm, 600ppi	*(539)
OL410E/PS Laser Postscript	*(799)

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	969
ProTracer II-GL2 w. HP-GL2 & 2MB	1339
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
1624 24 pin	379
2023 24 pin, Quiet	(after rebate, 165)185
2123 24 pin, 43.5dBA, Color capability	239
2130 Quiet Dot Matrix	(after rebate, 169)199
2135 Quiet Dot, Color	(after rebate, 205)255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Sealable Fonts, LCD	329
3624 24 pin, Quiet, 46.5dBA	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4430 Laser 5ppm, 1MB	665
4400 Led Page	(after rebate, 399)449
4440 Laser 10ppm	995
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm	(after rebate, 499)599
SP-100 Multi-function printer	769
Accessories for 4410, 4420, 4430. 4400 4440, 4450 4450i, 4455, 5400	***call***

SEIKO

Smart Label Printer Plus / Pro	145/245
- Standard Label (2 rolls)	7.95

SUMMAGRAPHICS (Plotter)

DMP-60 / DMP-61 A to D Size	1275/1275
DMP-161 A to D size	1599
DMP-162 A to E size pen	1899
Hiplot 7100 A to D w. stand	1999
Hiplot 7200 A to E w. stand	2355

18. SCANNER

HP (flatbed)

ScanJet IIICX Color w. Kit	955
- Auto Document Feeder	475
ScanJet IIIP Gray Scale w. Kit	509

INFO

SF3GS Gray Scale 300 dpi w. OCR	*(199)
SF12C Color 24 bit 1200 dpi w. OCR	349
- w. Auto Document Feeder (SF6CD)	539

LOGITECH (hand)

Scanman Easy Touch w. OCR	169
Scanman 256 / w. Omni Page OCR	135/155
Scanman Color w. Omni Page OCR	*(195)
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	549
Scan Maker IIHR 600 dpi w. Photoshop & OCR	1050
Scan Maker IIHR 600 dpi w. Picture Publisher	825
Scan Maker IISPX 300 x 600 dpi	875
Scan Maker III	2495

19. TAPE BACKUP

COLORADO

DJ-20 250MB QIC-80	*(129)
- AB-11 External Tape Port	35
- Cable (2FD & tape backup)	6
- DC2120 Pre-Formatted	12.99
- FC-20 Controller	69
- TC-15 Controller w. compression	155
- KE-09 External Kit w/o Controller	59
- Unix / Xenix Driver	99
DJ-35C Jumbo 350 340MB Int	149
DJ-25C Jumbo 700 680MB Int	259
DJ-50C Jumbo 1400 1.3GB Int	329
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker 250MB / 350MB (printer port)	259/299
- upgrade fr 250MB to 350MB	39.95
Tracker 680MB (printer port)	385

CONNER

CNR-250MQPT 250MB Ext	315
CNR-4320RT 2GB Int	745
CNR-4350XT 2GB Ext	985
Tape Stor 420MB w. cartridge Int	169
Tape Stor 850MB w. cartridge Int	255
Tape Stor 850MB w. cart. Ext (printer port)	385

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int	499
EXB-2501 1 - 2GB SCSI-2 Ext	649
FS1G (2501 + Control Kit) Int / Ext	675/*(799)
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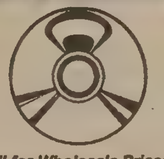

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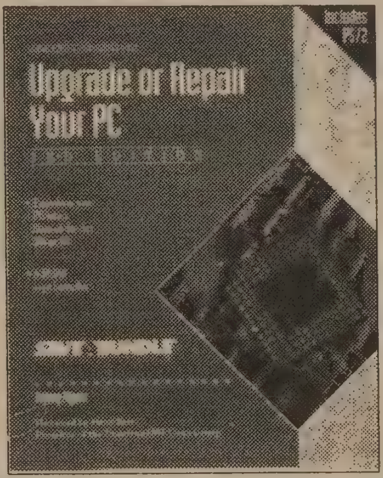
equipment needed (modem, communications software), online etiquette, and standard formats for online genealogical information. She then covers local BBSes and their nets, FidoNet, Usenet and the soc.roots newsgroup, and the Internet. There are chapters on individual online genealogical resources including the National Genealogical Society BBS and Everton Publisher's BBS, and genealogy sections on major services like Prodigy, Delphi, GEnie, America Online, and CompuServe. The resources of The Church of Jesus Christ of Latter-Day Saints and online library card catalogs are also covered. There is a list of genealogy BBSes and an explanation of the Library of Congress Information System in the appendices. An included disk (DOS) contains an abbreviated version of Brother's Keeper and ASCII files for three additional appendices: online libraries, other resources, and the Genserv project. ($27.95) Windcrest/McGraw-Hill, 13311 Monterey Ln., Blue Ridge Summit, PA 17294-0850.

QuarkXPress Tips & Tricks, Second Edition

QuarkXPress Tips & Tricks is a collection of tips from *The QuarkXPress Book, Fourth Edition for Macintosh*, online services, meetings and conferences, and real-world users, all geared toward new and experienced users alike. The book covers v3.3 and includes chapters on QuarkXPress basics, document construction, word processing, type and typography, copy flow, pictures, color, printing, problems and solutions, macros and scripts, XTensions, v3.0/1 and System 6, Windows and QuarkXPress, XPress tags, and resources. There is a CD-ROM included that contains demo and free XTensions, shareware/freeware, commercial and demo software, Applescripts, QuickTime movies, and clip art. ($34.95) Peachpit Press, 2414 Sixth St., Berkeley, CA 94710. 1-800-283-9444 or (510)548-4393.

Upgrade Or Repair Your PC

In *Upgrade or Repair Your PC*, author Aubrey Pilgrim guides technical novices through the process of upgrading and/or repairing PCs, peripherals, and software—covering all of the latest advances in technology. Readers will find current coverage of the latest chips, including the Pentium processor, PowerPC, and 486DX4; as well as new information on the Internet, SCSI interfaces, and enhanced IDE interfaces. There is a section on troubleshooting, and the latest parts information and resource listings. Through abundant illustrations and step-by-step instructions, *Upgrade or Repair Your PC* covers how to upgrade, enhance, or repair software, motherboards, ROM BIOS, floppy drives, hard disks, monitors, printers, scanners, fax boards, modems, and CD-ROMs. ($26.95) McGraw-Hill, Inc., Professional Book Group, Blue Ridge Summit, PA 17294-0850. 1-800-233-1128.



Review

Amiga Software Review

PC-Task v3

Published By: Quasar Distribution
List Price: $135
Reviewed By: Douglas J. Nakakihara

PC-Task is a multitasking software-based PC emulator for the Amiga. With it, you can run most PC programs that require an 80286 processor or below. It can access up to 16MB of your Amiga RAM as PC RAM and utilize your Amiga peripherals (mouse, printer, modem, CD-ROM, etc.). For storage you can either use a hard drive partition or it can generate a file that is treated as a partition. Your Amiga (low- or high-density) floppy drives act as PC drives.

Software installation is a snap and all of the setup is done on a simple options screen. (Note: You need to supply your own copy of MS-DOS.) If you have an AGA machine, you can emulate up to a 256-color SVGA display. Non-AGA machines are limited to monochrome, CGA, or EGA. Microsoft Windows 3.1 runs without a hitch, but as you might expect, performance is not exactly blindingly fast, even with a 40MHz '040. Additionally, Windows only runs in real mode (not enhanced) due to the 286 CPU-limitation. Still, this is quite a feat!

PC-Task will work on a standard 68000 and 512K of RAM, but I'd recommend at least an '020 and several megabytes of RAM for acceptable performance. The 52-page indexed manual is fairly detailed and includes troubleshooting hints. This is a wonderful program and highly recommended if you need to run PC programs, particularly DOS applications. (Quasar Distribution, P.O. Box 188, Southland Centre, Victoria 3192, Australia. Voice: 61 3 583 8806. Internet: *pctask@quasar.dializ.oz.au*)

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CONVERGENCE: MULTIMEDIA AND THE MOVIES

continued from page 294

The bundled CD-ROM of demos from over thirty publishers is valuable—if you are a Windows user. It includes four DOS titles and only eight that will work with a Mac.

Que's 1995 CD-ROM Buyer's Guide by David D. Busch (Que, $19.95) doesn't have a demo CD, but it is larger than Krantz's book and there is more descriptive copy, as well as illustrations for three hundred of the fifteen hundred titles listed. A good buyer's and collector's reference, it includes introductory chapters on CD-ROMs and how to use them.

If you enjoyed LeVitus & Fraase's *Guide to the Macintosh Underground* (Hayden Books), then pick up a copy of Owen Linzmayer's *The Mac Bathroom Reader* (Sybex, $12.99). With a title like that, I thought I would find an Intel components catalog between the covers. But no, it is a delightful insider's gossipfest of Apple arcana, with the choicest skinny on the origins and antics of the company with a whim of iron. You will find many select factoids, vignettes, and anecdotes of how really adventurous and unpredictable our industry can be. ■

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Palmtops

continued from page 58...

recent years he's devoted himself to the study of analog computer technology, in particular building analog neural network circuits in silicon.

Such circuits are very difficult to design and test; however, they have the advantage of being extremely fast, much faster than similar digital designs. In order to pursue this dream, a number of years ago Mead and a number of other scientists got together to form Synaptics, Inc., to research and eventually market products using analog neural network technology.

The particular problem Mead has focused on is that of sensory input, i.e., hearing, feeling, seeing, and so forth. These systems are among the most intricate and highly evolved in the brain; they are also the oldest.

Mead believes that because of the specialized nature of these systems they are ideally suited for implementation using analog techniques. In the field of artificial intelligence it is well known that sensory tasks are among the most difficult; although we can build a machine that plays chess reasonably well, it's extremely difficult to build a machine that can interpret a visual scene.

Synaptics is now starting to produce commercial products as a result of many years of painstaking research. The first product to be marketed is a touch pad technology, currently being used by Epson and Twinhead in their laptops. What makes this touch-pad different from others is that it is based on neural network technology and is designed to take advantage of the subtle nuances of how human beings naturally use pressure variation and gestures to indicate motion.

In addition, Synaptics is working on analog handwriting recognition circuits which could be used to dramatically improve accuracy and yet still be used in a low-power device. Speech recognition is also something being researched there. The technology they are working on now and in the near future could well change the shape of the PDA industry, as well as the way we interact with our computers in general. ■

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RESOURCES:

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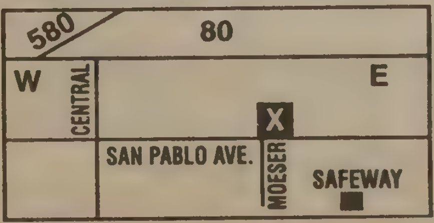

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SmartSuite 3.0 *continued from page 102...*

easily import clipart, a wide variety of which comes with the program.

I have always found Freelance Graphics to be the best of the display graphic programs and found no reason to change my mind with this release.

Lotus Organizer

There is not much new in this release for the individual user. You still get an information manager containing a calendar, scheduler, to-do list, and address book. Just what you would expect. New is the ability to work through a network and allow a master schedule to be kept.

AmiPro 3.1

This word processor is the cornerstone of the SmartSuite. What is apparent in this release is that now AmiPro is measurably faster than its competitors.

The style sheets are still great and there are more of them with this release. Mail merge and label management are done through supplied macros and work without almost any thought on the part of the user. Large, complicated documents are handled with ease. Indexing and Table of Contents work as well as ever. Power Fields—such as number of pages and number of edits—are easy to install and use. Interaction with other Lotus products is getting easier than ever before. For example, you might do an outline in AmiPro using the outline style. Once you are done, select the entire document, copy it to the clipboard, start up Freelance, select the appropriate SmartMaster, choose the outline view, then paste.

From my viewpoint, AmiPro is the best word processor on the market. I haven't changed my mind using this release.

Integration

Overall, the integration of the applications has been refined in SmartSuite 3.0. Most improved is the relationship between Approach and 1-2-3. For example, you might have a group of records displayed in the worksheet mode of Approach. You want to do some basic statistics for this group of records, but don't want to write a special report just to do so. Select the records and copy them to the clipboard. Two mouse clicks is all it takes. Another mouse click switches to 1-2-3. A final mouse click pastes the data into 1-2-3 and lets you manipulate and analyze to your heart's content. It also works the other way. You can have ranges of data in 1-2-3 which can be imported into Approach for reporting and analysis with database features.

The SmartSuite also comes with the "Working together bonus pack." This is a set of macros for AmiPro. When installed, they add thirty-one or so features to AmiPro by using the rest of the Suite. One of them, for example, lets you add curved text to an AmiPro document. When you run the macro, Freelance is started up, the curved text is created, and then it is imported into AmiPro as a graphic. Many of these macros concern calculations and statistics created in 1-2-3. ■

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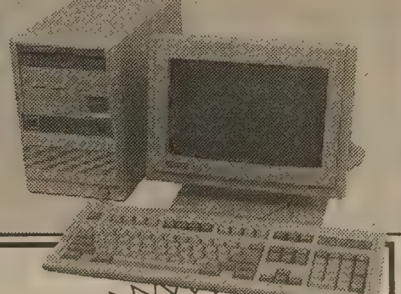

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Accounting

continued from page 104

Delaware and California), and may be subject to suit in a distant state. A good way to save on legal fees and travel expenses is to not get sued on the other side of the continent.

According to the online service, one of the reasons Delaware is the choice of Corporate America is because "the annual franchise tax on corporations compares favorably with other states (as little as $50/year in most cases)." California corporations, by comparison, are subject to a minimum tax of $800, as well as high income tax rates. And for icing on the cake, The Company Corporation charges substantially lower service fees to users who opt to incorporate in Delaware than to those who choose other states.

The fact is, corporations doing business in California can't legitimately escape the California franchise tax, which applies equally to foreign and domestic corporations. If your finger is clicking in California, you will be considered to be doing business in the state. And if you've got cheating on your mind, there are tax fraud statutes.

Even if you get away with it for awhile (and I presume there is an epidemic of this), cutting too many corners might make it difficult to obtain professional services later on. CPAs usually require considerable corporate documentation before being retained by a new client. And malpractice insurance carriers lean on practitioners to reject those that don't have their corporate act together.

So here's the scenario. You're an independent software developer with a history of reeling in $65/hour, six-month gigs. Unfortunately, a rising tide of liability paranoia is making it difficult to find work as an unincorporated independent contractor.

One alternative is to work through a job shop as an employee—usually an unfavorable business deal and a bad tax deal to boot. You feel it's gotten to the point of incorporate or starve.

Once online, you follow the prompts. The day you get those new business cards showing a corporate I.D. number, fish start biting faster than you can put your pole in the water. It looks like those eight minutes spent online have made you rich.

What's wrong with this picture?

For one, the taxing authorities, and possibly the courts, might not even recognize the corporate existence, let alone any claim that you don't do business in California. A corporate shell that fails the full suite of legal requirements for corporate identity is no panacea.

RESOURCES:

George Berns, Attorney at Law
Oakland, CA
(510)836-4900

The Company Corp.
Three Christina Centre
201 N. Walnut St.
Wilmington, DE 19801
1-800-542-2677 Ext. 5319

Care And Feeding

To remain valid, corporation maintenance requires certain corporate formalities. Meetings must be held, a minute book kept, contracts properly drafted and executed, a separate bank account maintained, property titled in the corporate name, and the corporation must be represented to third parties as an independent organization. A wall of economic reality must separate you and the corporation in all transactions. Without these niceties, it is anyone's guess as to whether or not a taxpayer's—or defendant's—claims will be respected by the government or courts.

The Company Corporation does not ignore these formalities. For $87.95 (including P&H), they provide a corporate kit that would turn Barbie green with envy. The kit includes customized stock certificates, your company's corporate seal, preprinted minutes and by-laws, a stock transfer ledger, a corporate binder, and standard forms for corporate maintenance, along with instructions.

For an additional $67.95 (including P&H), they'll send you preprinted forms for over one hundred different corporate actions—from Minutes of Meetings to Fringe Benefits.

Additional services, charged separately, are available for things like annual tax filings, obtaining a tax identification number, making tax elections by power of attorney, forwarding mail from your Delaware address, and maintaining an agent for service of legal process.

Of course, a corporation is required to keep separate books of account, and you'll need to know how to do that. You may also want real professional services for routine tax matters, as well as to review the tax and legal consequences of proposed transactions.

In perspective, the eight minutes you initially invested took you into a corporate lobster trap—it's easy to get into, but you can no longer just go about your carefree business as you did before.

Overall, my impression is that The Company Corporation is not untypical of do-it-yourself legal software packages and concerns. The forms themselves are perfectly legitimate, but the online guidance sometimes may encourage people to use them who haven't enough experience to know when they need help. Superficially, any literate person can incorporate from a desktop, but the realities are far more complex.

I won't go as far as to say "kids, don't try this at home." But the ease and cleanliness of software solutions to this fiscal pain in the gut can gloss over some pretty heavy consequences.

On the other hand, the case shouldn't be overstated with alarm. A popular law school text on corporations explains:

> There are two significant pitfalls in the routine use of such forms. The first is the danger that no one with a broad perspective on the law of corporations will bring that perspective to bear on the potentially unique problems of the particular venture... Boiler plate forms...may contain some provision that was suitable for the last corporation but is egregiously inappropriate for the next one. Overall, however, the process by which a corporation is formed is simple and routine and not in any way mysterious.

There's nothing wrong with saving money. For many, that's what corporations are all about. But understand the benefits and risks, and decide what's right for you before following the online siren's song. ■

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Entity Checklist, Tax Action Memo TAM-363 (Aug 2, 1994), a side-by-side comparison of tax attributes of five forms of doing business, reprinted with permission of Practitioners Publishing Company, Fort Worth, Texas.

"Developers and Programmers: To Incorporate or Not," *MicroTimes* (September 20, 1993).

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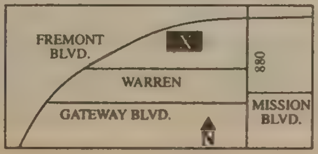

MULTIMEDIA 101

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together of the sounds—but some stubborn little voice inside me kept saying, "You're not actually creating anything here."

It seemed like making a cake from a mix rather than scratch. That might be fine for some people's tastes, but, if you want to be a chef, it just won't cut it. Obviously computers can be used either as serious tools for creative purposes or as short cuts for pleasurable experiences—significantly, the line between the two is blurring—but *Rock 'n' Roll Your Own* is still cake mix. Just note that that doesn't prevent it from being fun.

KIREI!—THIS MONTH'S EYE CANDY

I have to admit that one of my favorite uses for a computer is for generating psychedelic swirls of madly vibrating colors. Kirei! is one of several products that allow me to trip out like this without chemicals. The astounding thing is that while Kirei!, Bliss Saver and Bliss Paint, and The Groove Thang all generate various psychedelic effects, they do so with quite different interfaces, tools, and results.

With Kirei!, you can draw on the screen to produce some pretty dazzling visuals with animated and cycling color tables. Eye candy production begins almost immediately. There are some sample files that you can use as platforms for building on. You can also import any PICT file such as the psychedelic rock poster art from Julianne Multimedia (reviewed in *MicroTimes* #136) for an interesting twist or added psychedelic boost. There are a few additions to these basic abilities like importing more than one PICT file and placing one on top of another, shrinking and placing the images in either a mandala or a tunnel-vision arrangement, creating and/or editing your own color tables, changing your brush size automatically or by mouse speed, and a few other tricks. However, it doesn't take long to want to do more and to have a sense of greater control.

Kirei! has a particularly deficient and frustrating manual that doesn't explain many of the things (like hitting the space bar for the full-screen option, or hitting the delete key to clear your entire screen) that you can do. Adding to the difficulty is the slightly nonstandard interface—for example, the help system that displays those keyboard commands is under the Apple menu, a place I never thought of looking!

On the positive side, further exploration and tinkering will reward you with much more elaborate results—Kirei! has worked quite well as a live performance tool. Interestingly, I felt as though I was being more creative using Kirei! than I did using *Rock 'n' Roll Your Own.*

You can save what you like as After Dark modules for use as a screen saver or even import them into Macromedia Director for further multimedia projects. And you don't even need a CD-ROM drive, it comes on a single floppy. ■

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CORRECTION

In last issue's Resources section we misprinted the phone number for Julianne Multimedia, the maker of *Rock & Roll Art—Famous Concert Posters.* The correct number is (415)892-0599. Our apologies to Ms. Benke and those who tried to contact her.

AMIGA

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ed into ARexx scripts. In fact, you can even control ImageFX using a command language window as opposed to using the GUI.

One of ImageFX's handiest features is its ability to record user actions into an ARexx file. This provides a way to write a working ARexx script much more quickly than creating it from scratch.

BATCH PROCESSING

Previously, automated batch processing with ImageFX often required you to write an ARexx script. A batch processing utility called IMP was provided (and still is), but really only helped to handle the files. It didn't really automate the image processing side of things.

New with v2.0 is AutoFX. This utility is a 1000% improvement over IMP for point-and-click batch processing. Essentially, AutoFX lets you piece together an ARexx script using a battery of small premade "sub-scripts." All of the sub-scripts are stored in a single directory, which is annoyingly reread every time you select a new operation.

Novice users may be hindered by the lack of relationship between the sub-script list and ImageFX's GUI. It is certainly not as straightforward to use as ProControl, which controls ADPro. However, it is much more versatile in terms of upgradability and user customization. You can modify the sub-scripts or even write your own (if you can figure out the syntax).

OTHER FEATURES

Other features are unlimited undo and redo (memory permitting), and a neat screen grab function that captures any open Amiga screen as a brush. ImageFX also supports output to the Primera color printer.

The "Magic" system is Nova Design's attempt to establish a data interchange standard. This allows multiple applications to simultaneously work on the same image data. Hopefully, when the Amiga market comes back, developers will embrace the standard.

The only problems I encountered were poor updating of the palette window on a 24-bit Retina display, and a palette glitch with saved Amiga IFFs. These should be fixed in the next upgrade, due out soon.

ImageFX features online AmigaGuide help plus a nice thick printed manual. There is so much in this package I've only had space to barely scratch the surface. ImageFX is a must-have for serious Amiga owners. Although it is not a requirement, I'd highly recommend adding a 24-bit graphics card to your system, if you don't already have one. Right now, I'd say go with the Retina; however, once the cybergraphics system support is in place, you'll have a much greater choice. ■

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RESOURCES:

ImageFX 2.0, $349.95, upgrade $124.95
Nova Design, Inc.
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(804)282-5868

Byrd's Eye Software
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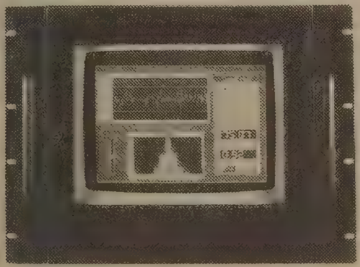

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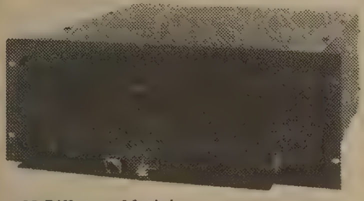

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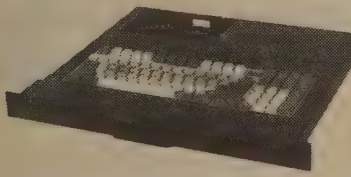

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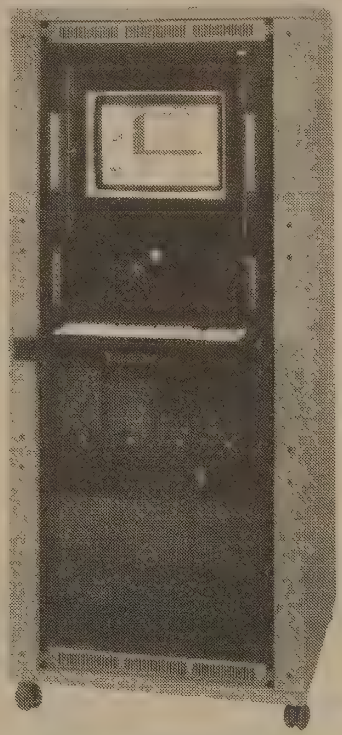

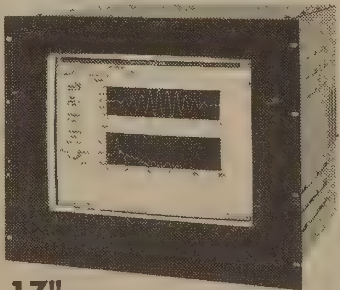

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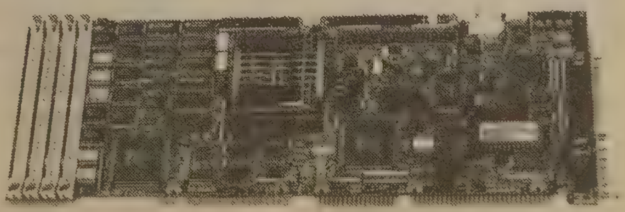

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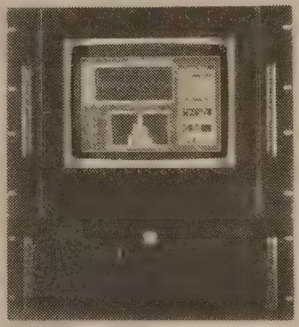

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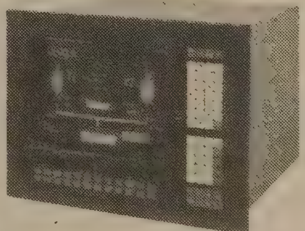

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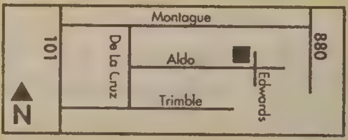

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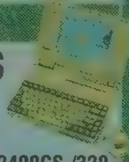

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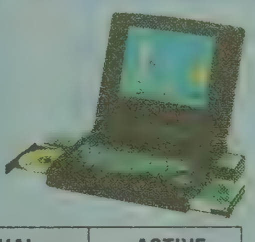

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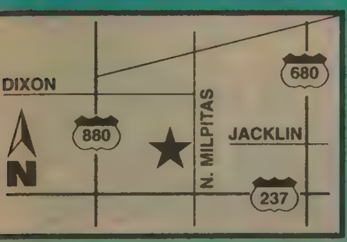

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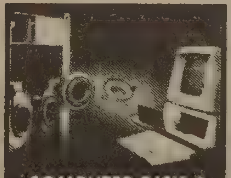

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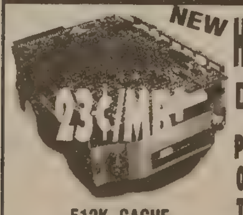

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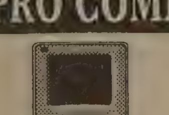

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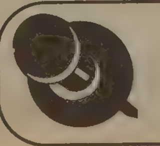

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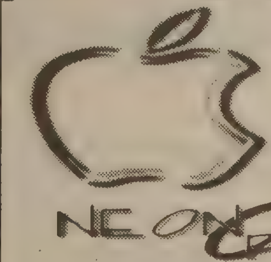

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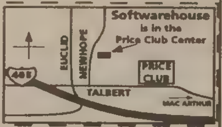

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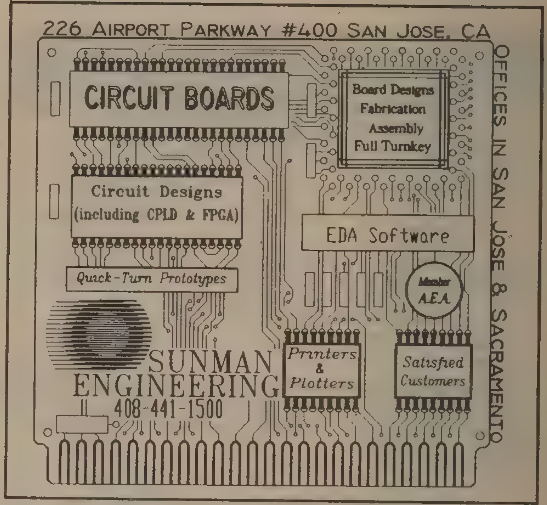

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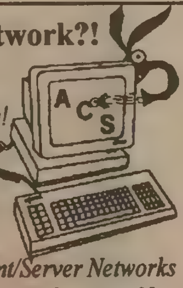

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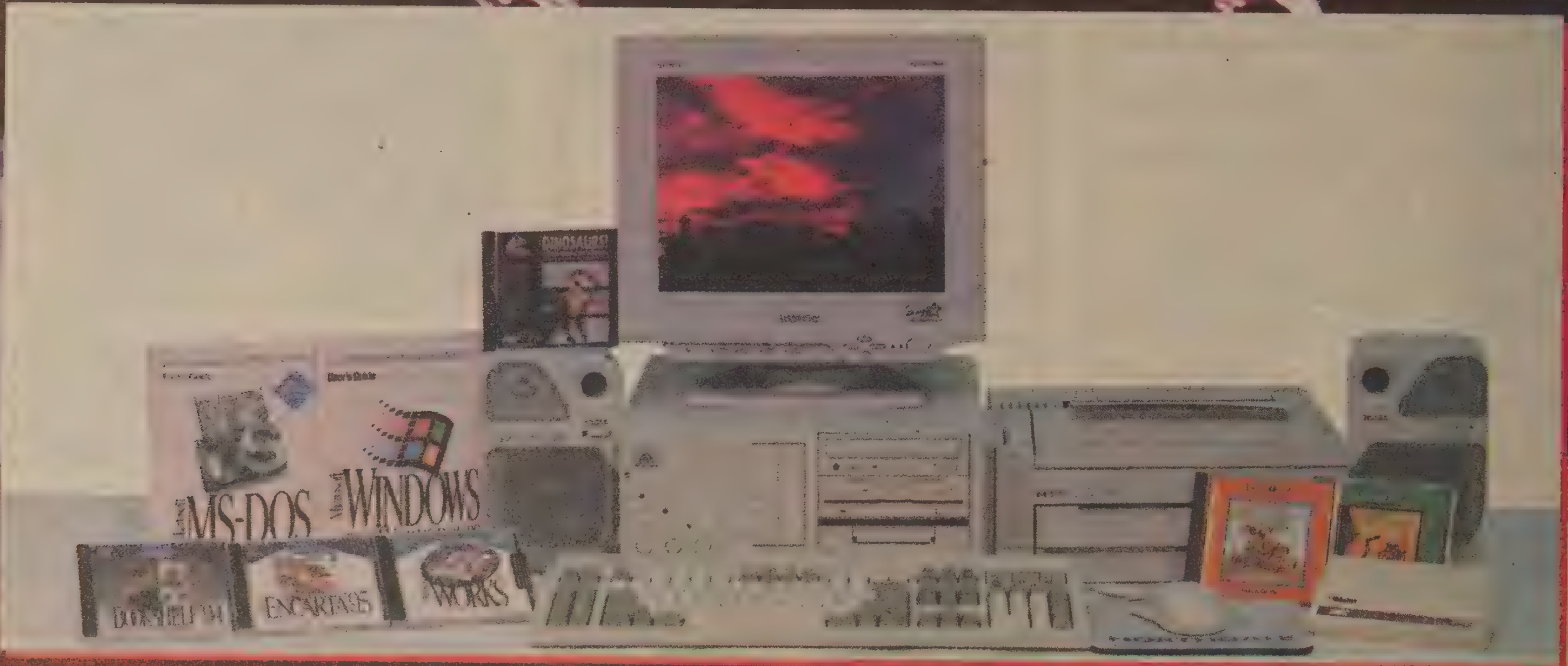

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486DX2-66/256C VLB (Genoa M/B)	118	208	N/A	498	658	688	888	878	1,078
486DX2-66/256C VLB-PCI	118	208	358	478	628	658	858	848	1,038
486DX4-100/128C VLB	84	238	388	508	658	688	888	878	1,068
486DX2-80/128C VLB	84	178	328	448	598	628	828	818	1,008
486DX2-66C VLB	64	138	288	408	558	588	788	778	968
486DX2-50C VLB	64	128	278	398	548	578	778	768	958
486BL-75/256C VLB (IBM M/B)	N/A	188	338	458	608	638	838	828	1,018
486SLC2-66/64C VLB (IBM M/B)	N/A	114	268	388	538	568	768	758	948
486DLC-40/128C ISA	N/A	98	248	368	518	548	748	738	928
486SLC-33 ISA	N/A	64	214	334	484	514	714	704	894
386DX-40/128C	N/A	88	224	354	504	534	734	724	914
386SX-40	N/A	54	204	324	474	504	704	694	884

*BASIC SYSTEM: MOTHERBOARD & CPU, 1MB RAM, IDE WITH I/O, 1.44MB FDD, CASE WITH POWER SUPPLY, AND 101-KEY KEYBOARD.

HI-TECH DELUXE MULTIMEDIA

- Motherboard w/CPU
- **4MB RAM**
- **420MB Fast IDE Hard Drive**
- 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- Enhanced Case w/Power Supply
- VLB or PCI SVGA Card w/1MB
- **14" SVGA .28 Non-interlaced Monitor**
- Focus 2001 Keyboard
- **Double Speed CD-ROM**
- 16-Bit Sound Card & Speakers
- **Free CD Deluxe Pak**
- Microsoft Compatible Mouse w/Pad
- Microsoft Windows 3.x
- Free DOS 6.x

486SLC-66/64K VLB (IBM M/B)	**$1,048**
486BL-75/256K VLB (IBM M/B)	**1,128**
486DX2-50/128K VLB	**1,078**
486DX2-66/128K VLB	**1,088**
486DX2-66/256K VLB-PCI	**1,138**
486DX2-80/128K VLB	**1,108**
486DX4-100/128K VLB	**1,168**

UPGRADES

540MB Hard Drive	Add $20
850MB Hard Drive	Add 80
1.2GB Hard Drive	Add 180
15" Non-Interlaced Monitor	Add 90
17" Non-Interlaced Monitor	Add 370

HI-TECH BEST BUY SYSTEM

- Motherboard w/CPU
- **4MB RAM**
- **210MB Fast IDE Hard Drive**
- 1.44MB 3.5" Floppy Drive
- IDE 2HD/2FD Controller with I/O
- Enhanced Case w/Power Supply
- VLB or PCI SVGA Card w/1MB
- **14" SVGA .28 Non-interlaced Monitor**
- 101-Key Enhanced Keyboard
- Microsoft Compatible Mouse w/Pad
- Free DOS 6.x

386SX-40 ISA	**$708**
386DX-40/128K ISA	**748**
486SLC-33 ISA	**718**
486SLC2-66/64K VLB (IBM M/B)	**778**
486DX2-50/128K VLB	**798**
486DX2-66/128K VLB	**808**
486DX2-66/256K VLB-PCI	**848**
486DX2-80/128K VLB	**838**
486DX4-100/128K VLB	**898**

UPGRADES

Microsoft Windows 3.x	Add $54
420MB Hard Drive	Add 30
540MB Hard Drive	Add 40
850MB Hard Drive	Add 100
15" Non-Interlaced Monitor	Add 90

HI-TECH DREAM SYSTEM

- Motherboard w/CPU
- 256KB External Cache
- **8MB RAM**
- **540MB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- VLB or PCI SVGA Card w/1MB
- **14" SVGA .28 Non-interlaced Monitor**
- Keytronics Keyboard
- Enhanced Case w/Power Supply
- Microsoft Compatible Mouse w/Pad
- Free DOS 6.x

Genoa 486DX2-66/256K VLB	**$1,058**
Asus 486DX2-66/256K VLB-PCI	**1,098**
Asus 486DX2-80/256K VLB-PCI	**1,118**
Asus 486DX4-100/256K VLB-PCI	**1,178**
P5-60/256K VLB-PCI	**1,238**
P5-66/256K VLB-PCI	**1,288**
P5-75/256K VLB-PCI	**1,358**
P5-90/256K VLB-PCI	**1,458**
P5-100/256K VLB-PCI	**1,558**

UPGRADES

Microsoft Windows 3.x	Add $54
850MB Hard Drive	Add 60
1.2GB Hard Drive	Add 160
15" Non-Interlaced Monitor	Add 90
28.8 Internal Fax Modem	Add 90

HI-TECH SUPER P5 SYSTEMS

- Intel Pentium™ Processor with Fan
- 256KB External Cache
- **8MB RAM**
- **540MB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth 64 PCI with 1MB
- **15" SVGA .28 Color Monitor**
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- Microsoft Serial Mouse w/Pad
- Free DOS 6.x

P5-75 PCI (Intel M/B)	**$1,638**
P5-90 PCI (Intel M/B)	**1,738**
P5-100 PCI (Intel M/B)	**1,838**
P5-75 PCI (Asus M/B)	**1,558**
P5-90 PCI (Asus M/B)	**1,658**
P5-100 PCI (Asus M/B)	**1,758**
P5-75 PCI (Micronics M/B)	**1,668**
P5-90 PCI (Micronics M/B)	**1,768**
P5-100 PCI (Micronics M/B)	**1,868**

UPGRADES

Microsoft Windows 3.x	Add $54
850MB Hard Drive	Add 60
1.2GB Hard Drive	Add 160
17" Non-Interlaced Monitor	Add 280
28.8 Internal Fax Modem	Add 90

TERMS AND CONDITIONS

1 One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice.
4 Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6 Defective items replaced or repaired at our discretion.
7. No responsible for typos.
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Maxipro II Programmable	44
Microsoft Natural Key	**83**
NORTHGATE	
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OMNI 102	**62**
OMNI Ultra	**82**

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387DX-33 Tube	**10**
387DX-33 Box	**32**
387SX-40 Tube	22
387SX-40 Box	32
387SX-33 Tube	**22**
387SX-33 Box	**32**

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US ROBOTICS	
Sportster 14,400 Fax Modem Internal	**$88**
Sportster 14,400 Fax Modem External	108
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Sportster 28.8 Fax Modem w/V.34 Int	**212**
Sportster 28.8 Fax Modem w/V.34 Ext	230

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Microsoft

Microsoft Mouse Serial (w/System)	**$22**

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14" Super VGA 1024•768 .28 Int	184
14" Super VGA 1024•768 .28 NI	**196**
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17" Super VGA 1280•1024 .28	594

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3 Plus 14" 1024•768 .28 NI	208
7 17" 1280•1024 .26 NI	564

MAG INNOVISION

15F 15" 1280•1024 .28	**$348**
17F 17" 1280•1024 .26	**610**

NANAO®

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F2-17EX .26	928
T2-17TS .25	978
T2-17 .25	1,238
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3V 15" 1024•768 .28	**378**
Multisync XV 15	438
Multisync XE 15	520
Multisync XP 15	634
Multisync XV 17	754
Multisync XE 17	940
Multisync XP 17	1,178
Multisync XE 21	1,880
Multisync XP 21	2,312

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Stealth 64 VLB 1MB (DRAM)	**116**
Stealth 64 PCI 2MB (DRAM)	**153**
Stealth 64 VLB 2MB (DRAM)	**156**
Stealth 64 PCI 2MB (VRAM)	**256**
Stealth 64 VLB 2MB (VRAM)	**256**
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Stealth 64 VIB 4MB (VRAM)	**394**
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HI-TECH 486 MULTIMEDIA NOTEBOOKS

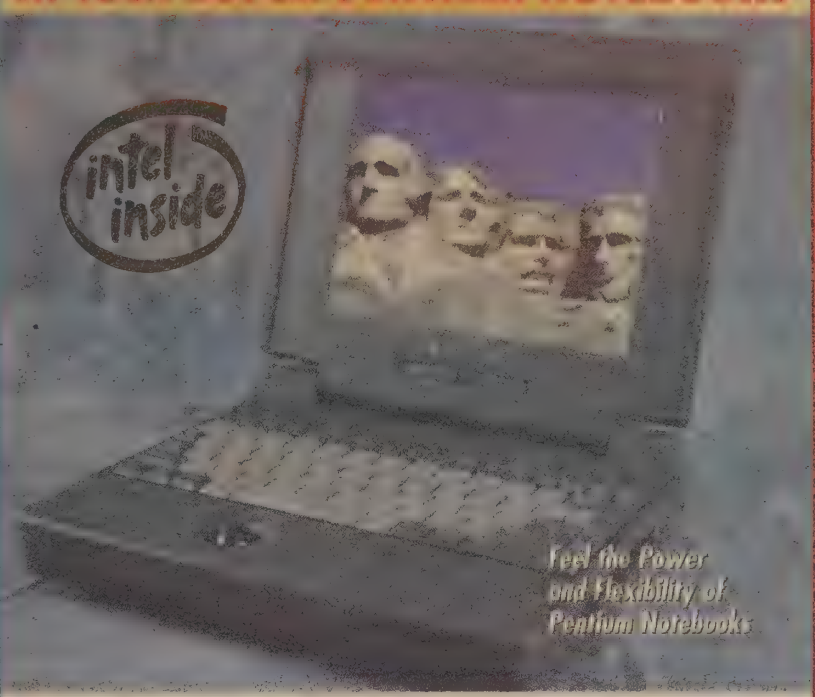
intel inside
Soar to New Heights
with our Incredible 486 11.3"
DSTN Color Notebook

STANDARD CONFIGURATIONS

- **4MB RAM (expandable to 32MB)**
- **340MB Hard Drive**
- 32-BIT VL Bus Windows Accelerator
- **Large 10.5" Screen (Dual Scan)**
- 1MB Video Memory
- Built-In Trackball
- Carrying Case
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Docking Station Option

HI-TECH SUPER SALES	VGA Mono	Dual Scan Color	Active Matrix Color
486DX2-50 (Intel CPU)	$1,338	$1,778	$2,318
486DX2-66 (Intel CPU)	1,368	1,808	2,338
486DX4-100 (Intel CPU)	1,458	1,898	2,428

HI-TECH SUPER PENTIUM NOTEBOOKS



STANDARD CONFIGURATIONS

- **8MB RAM (expandable to 32MB)**
- **340MB Hard Drive**
- 32-BIT VL Bus Windows Accelerator
- **Large 10.5" Screen (Dual Scan)**
- 1MB Video Memory
- Built-In Trackball
- Carrying Case
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Docking Station Option

HI-TECH SUPER SALES	Dual Scan Color	Active Matrix Color
P5-75 {Intel Pentium™ Processor}	$2,298	$2,898
P5-90 {Intel Pentium™ Processor}	2,398	2,998

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To 8MB / 12MB / 16MB / 32MB	$CALL
To 510MB / 700MB / 810MB Hard Drive	Add $120 / 260 / 330
PCMCIA Dual-Speed CD-ROM	Add $260
PCMCIA Fax Modem 14,400 or 28.8 w/V.34	Add $110 or $248
PCMCIA LAN Adapter (10Base-T & Twist)	Add $140
Extra NIMH Battery Pak	Add $120
Extra AC Adapter	Add $88
Docking Station	Add $420
Maxtor MobilMax Flash Memory Cards 1MB / 2MB / 4MB / 8MB	Add $99 / 159 / 239 / 379
10MB / 12MB / 16MB / 20MB	Add $449 / 509 / 639 / 769
Maxtor MobilMax PCMCIA Hard Drives 105MB / 131MB / 171MB	Add $299 / 329 / 389
Maxtor MobileMax Deskrunner Single Internal PCMCIA type III Card Socket for Desktop PCs	Add $95

TERMS AND CONDITIONS

1. One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice
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6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
8 All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals and software. No refunds after 30 days.
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Internet Literacy Consultants
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Lantrek Networks, Inc.
Laptop Superstore
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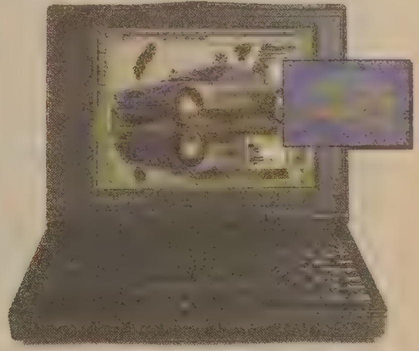

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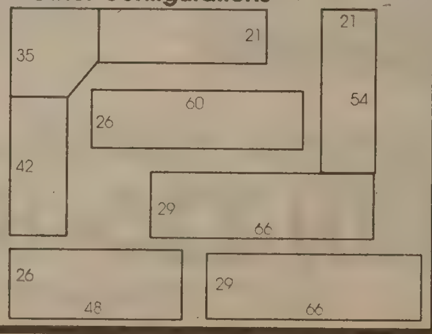

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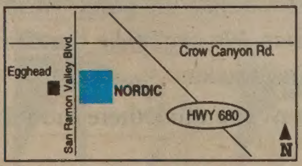

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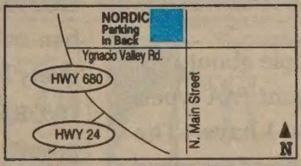

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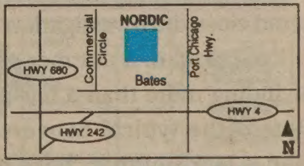

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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

Making It Up As We Go Along or Is There A Scientist Anywhere In The Room?

So I read this ghastly report about how it's possible that we'll end up with a worldwide airline ban on laptop computers because, well, bad things may have happened. According to Reuters, "Research shows that electromagnetic interference, whereby radio waves baffle plane instruments, has affected up to 100 flights and may have caused the Lauda Air disaster over Thailand in 1991 that killed 223 people."

Interesting. Gee with many more people using laptops in the California corridor than in flights over Thailand, I'm sure, you'd think we'd see some evidence of this effect, don't you? I mean the airbrakes of the Lauda jet turned on in midflight. Exactly how a laptop would make this happen needs explanation. It was not even a fly-by-wire plane.

> I'VE BEEN TOLD TO TURN OFF MY 1.5V SONY WALKMAN ON TAKEOFFS AND LANDINGS BECAUSE OF THIS WITCH HUNT.

> I'M SURE SOMEONE WOULD LIKE TO BLAME A LAPTOP FOR THE LAUDA CRASH SO THEY COULD CLOSE THE INVESTIGATION.

I've been told to turn off my 1.5V Sony Walkman on take offs and landings because of this witch hunt. I'm sure someone would like to blame a laptop for the Lauda crash so they could close the investigation.

I've talked to a number of people about this, including more than a few arrogant FAA types. Here is the typical conversation I have. The man is Jack Hoffman, head honcho of technical services, a fictitious composite.

DVORAK: So I've been reading about the potential banning of laptops.

HOFFMAN: Yes, they are an extreme problem.

DVORAK: Why is that?

HOFFMAN: They give off electromagnetic radiation and RF that interfere with the control systems of a modern airplane.

DVORAK: Really? What studies have shown this?

HOFFMAN: No studies, really. Just a lot of strange coincidences and reports.

DVORAK: Why don't they study this?

HOFFMAN: We don't need to. There's nothing to study. We've had 100 reports of anomalies.

DVORAK: And they've all been traced to computers?

HOFFMAN: Computers, CD players, cell phones, shavers. Always something going on when it happens, we think.

DVORAK: But isn't there always something going on all the time?

HOFFMAN: It's beside the point. We're going to ban computers. We can't take the chance. Too many lives are at stake.

DVORAK: Don't you think there should be some proof?

HOFFMAN: Lives are at stake. Can't take a chance. Do you want to be on the plane that goes down because of a laptop? I doubt it. Can't take a chance. Too risky. Better to be safe than sorry.

DVORAK: Is anyone even looking into this?

HOFFMAN: Sure, some people have. They've turned up nothing.

DVORAK: So why the ban?

HOFFMAN: Just because they can't prove it, doesn't mean it ain't so. We can't take a chance. Lives are at stake. Too risky.

DVORAK: It sounds as if the best bet would be to tie everyone to their seat for the whole flight. I mean, a fat guy walking down the aisle might tilt something and cause a wreck.

HOFFMAN: You got that right. We would if we could. That's what I'd recommend. It's risky having all those people roaming around a plane. They should be strapped down.

DVORAK: Maybe drugging all the passengers would be a good idea too.

HOFFMAN: I think so. Anything to minimize risk.

DVORAK: You make it sound as if it's a miracle that these planes can even fly...that it's a danger to go anywhere in one.

HOFFMAN: It is. I take the train. It's weird that these large cans of metal fly like that. You wonder what the heck keeps them up, don't you. It mystifies me. It's amazing they don't all come crashing down.

DVORAK: Well, thanks for your time. I'm sure we're in good hands with scientific minds like yourself looking out for us.

HOFFMAN: Gee, thanks.

Folks, this is how it is. Kiss your laptop on the airplane goodbye. They're not going to study a thing. Too risky. ■

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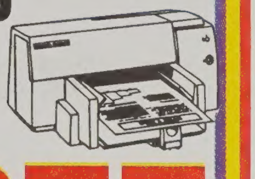

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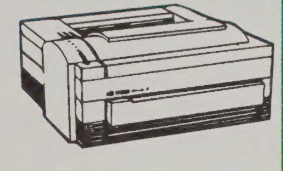

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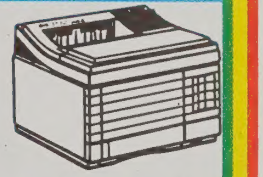

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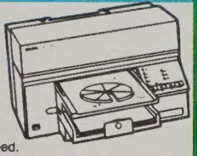

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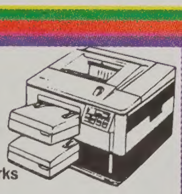

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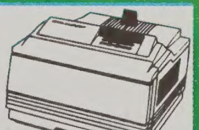

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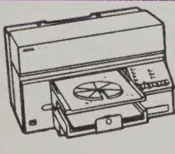

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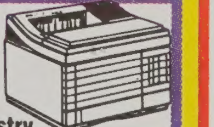

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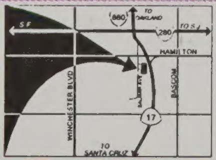

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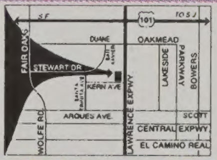

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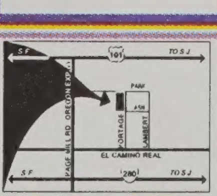

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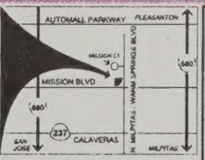

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